

IL-6mAb (ATGA0123)

# Growth Factor

Recombinant Proteins & Antibodies



Global NK cell Leader

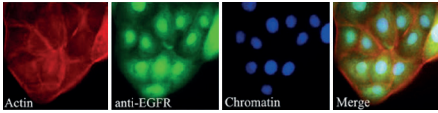
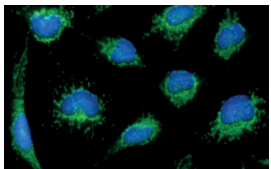
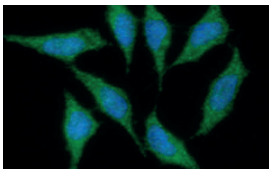
# Growth Factor

**Growth Factor** is a naturally occurring substance capable of stimulating cell proliferation, wound healing, and occasionally cellular differentiation. It is a secreted protein or a steroid hormone. Growth factors are important for regulating a variety of cellular processes. Growth factors typically act as signaling molecules between cells and it often promote cell differentiation and maturation, which varies between growth factors.

## Related Monoclonal Antibodies

Product name	Clone No.	Applications	Isotype	Host	Cat No.
<b>EGFR</b>	AT2H8	ELISA, WB, ICC/IF	IgG <sub>2b, k</sub>	M	<b>ATGA0212</b>
	AT2H8(TCS)	ELISA, WB, ICC/IF	IgG <sub>2b, k</sub>	M	<b>ATGA0541</b>
	AT6E3	ELISA, WB, ICC/IF	IgG <sub>2b, k</sub>	M	<b>ATGA0197</b>
	AT6E3(TCS)	ELISA, WB, ICC/IF	IgG <sub>2b, k</sub>	M	<b>ATGA0548</b>
<b>Angiopoietin-like 3/ANGPTL3</b>	AT23D8	ELISA, WB, ICC/IF	IgG <sub>2a, k</sub>	M	<b>ATGA0478</b>
<b>BMP-2</b>	AT15B3	ELISA, WB, ICC/IF	IgG <sub>2b, k</sub>	M	<b>ATGA0281</b>
<b>BMP-7</b>	4E7	ELISA, WB, ICC/IF	IgG <sub>1, k</sub>	M	<b>ABM0615</b>
<b>BMP-8b</b>	AT13E6	ELISA, WB, ICC/IF	IgG <sub>2a, k</sub>	M	<b>ATGA0332</b>
<b>IGF-1</b>	AT6F8	ELISA, WB, ICC/IF	IgG <sub>2b, k</sub>	M	<b>ATGA0311</b>
<b>CTGF/CCN2/IGFBP-8</b>	AT18E7	ELISA, WB, ICC/IF	IgG <sub>2a, k</sub>	M	<b>ATGA0468</b>
<b>IL-6</b>	AT1H6	ELISA, WB, FACS, ICC/IF	IgG <sub>2a, k</sub>	M	<b>ATGA0123</b>
	AT1F10	ELISA, WB	IgG <sub>1, k</sub>	M	<b>ATGA0313</b>

EGFR antibody (AT2H8) (Cat No. ATGA0212)	BMP-7 antibody (4E7) (Cat No. ABM0615)	IGF-1 antibody (AT6F8) (Cat No. ATGA0311)
		
<b>ICC/IF analysis</b> Immunofluorescence of HaCaT cells stained with Hoechst 3342 (Blue) or phalloidin-TRITC for nucleus or actin staining, respectively. Monoclonal anti-human EGFR antibody (1:250) was stained with Alexa Fluor 488 (Green).	<b>ICC/IF analysis</b> ICC/IF analysis of BMP-7 in HeLa cells. The cell was stained with anti-human BMP-7 antibody (1:100). The secondary antibody (Green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (Blue).	<b>ICC/IF analysis</b> ICC/IF analysis of IGF-1 in PC3 cells. The cell was stained with anti-human IGF-1 antibody (1:100). The secondary antibody (Green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (Blue).

## Related Recombinant Proteins

### • EGF (Epidermal Growth Factor)

Product name	Species	Expression system	Cat No.
<b>EGF</b>	H	<i>E. coli</i>	<b>EGF0501</b>
	M	<i>E. coli</i>	<b>ATGP3729</b>
	M	<i>E. coli</i>	<b>ATGP1532</b>
<b>EGF-like 6</b>	M	Baculovirus	<b>ATGP3860</b>
<b>EGFR (ERBB-1/HER-1)</b>	H	CHO Cell	<b>ATGP3335</b>
<b>ERBB-2/HER-2</b>	H	Baculovirus	<b>ATGP3586</b>
<b>ERBB-3/HER-3</b>	H	Baculovirus	<b>ATGP3125</b>
	M	Baculovirus	<b>ATGP3302</b>
<b>GRB-2</b>	H	<i>E. coli</i>	<b>ATGP0286</b>
<b>Betacellulin</b>	H	<i>E. coli</i>	<b>ATGP1250</b>
<b>Epiregulin</b>	H	<i>E. coli</i>	<b>ATGP2923(D)</b>
<b>Epigen</b>	H	<i>E. coli</i>	<b>ATGP2332(D)</b>
	H	Baculovirus	<b>ATGP3682</b>
<b>NRG-1</b>	H	Baculovirus	<b>ATGP3990</b>
<b>NRG-4</b>	H	<i>E. coli</i>	<b>ATGP2472</b>

### • HGF (Hepatocyte Growth Factor)

Product name	Species	Expression system	Cat No.
<b>HGF</b>	H	<i>E. coli</i>	<b>ATGP2718(D)</b>
<b>HGF R/c-MET</b>	M	Baculovirus	<b>ATGP3896</b>

### • FGF (Fibroblast Growth Factor)

Product name	Species	Expression system	Cat No.
<b>FGF-1 (FGF acidic)</b>	H	<i>E. coli</i>	<b>ATGP3788</b>
	M	<i>E. coli</i>	<b>ATGP1189</b>
<b>FGF-2 (FGF basic)</b>	H	<i>E. coli</i>	<b>ATGP3786</b>
<b>FGF-10</b>	H	<i>E. coli</i>	<b>ATGP1387</b>
<b>FGF-12</b>	H	<i>E. coli</i>	<b>FGF0902</b>
<b>FGF-14</b>	H	<i>E. coli</i>	<b>ATGP2128</b>
<b>FGF-17</b>	H	<i>E. coli</i>	<b>ATGP2092(D)</b>
<b>FGF-19</b>	H	HEK293	<b>ATGP3972</b>
<b>FGF-21 (L174P)</b>	H	<i>E. coli</i>	<b>ATGP3789</b>
	M	<i>E. coli</i>	<b>ATGP3897</b>
<b>FGF-21</b>	M	Baculovirus	<b>ATGP3300</b>
<b>FGF-23</b>	H	Baculovirus	<b>ATGP3852</b>
<b>FGF R1 alpha</b>	H	Baculovirus	<b>ATGP3647</b>
	H	Baculovirus	<b>ATGP3856</b>
<b>FGF R1 Kinase Domain</b>	H	Baculovirus	<b>ATGP3828</b>
<b>FGF R2 alpha</b>	H	Baculovirus	<b>ATGP3621</b>
<b>FGF R2 beta</b>	H	Baculovirus	<b>ATGP3899</b>
<b>FGF R3</b>	H	Baculovirus	<b>ATGP3654</b>
<b>FGF R4</b>	H	Baculovirus	<b>ATGP3423</b>
<b>FGF-BP</b>	H	<i>E. coli</i>	<b>ATGP2926</b>
<b>FIBP</b>	H	<i>E. coli</i>	<b>ATGP2145</b>

H : Human M : Mouse TCS : Tissue Culture Supernatant D : Denatured

## Related Recombinant Proteins

### • VEGF (Vascular Endothelial Growth Factor)

Product name	Species	Expression system	Cat No.
VEGF-A(120)	M	<i>E.coli</i>	ATGP0389
	R	<i>E.coli</i>	ATGP2900
VEGF-A(121)	H	<i>E.coli</i>	VEG0901
	H	<i>E.coli</i>	ATGP0282
VEGF-A(165)	H	<i>E.coli</i>	ATGP1248
	H	<i>E.coli</i>	ATGP1449
	H	Baculovirus	ATGP2873
VEGF-C	H	Baculovirus	ATGP3309
VEGF R2/KDR/Flk-1	H	Baculovirus	ATGP3627
VEGF-A R/Neuropilin-1	H	Baculovirus	ATGP3769
PlGF	M	Baculovirus	ATGP3171

### • Angiogenic Factor

Product name	Species	Expression system	Cat No.
Angiopoietin-1	H	<i>E.coli</i>	ATGP1236(D)
Angiopoietin-2	H	CHO Cell	ATGP3853
Angiopoietin-like 2	H	<i>E.coli</i>	ATGP2976(D)
Angiopoietin-like 3	H	<i>E.coli</i>	ATGP3149
	H	Baculovirus	ATGP3406
Angiopoietin-like 7	M	Baculovirus	ATGP3196
Angiopoietin-1 R/Tie-2	H	Baculovirus	ATGP3947
	M	Baculovirus	ATGP3190
Angiogenin	H	<i>E.coli</i>	ATGP2604(D)
	H	Baculovirus	ATGP3811

### • PDGF (Platelet Derived Growth Factor)

Product name	Species	Expression system	Cat No.
PDGF-B	H	<i>E.coli</i>	ATGP3007
PDGF-D	H	<i>E.coli</i>	ATGP1711(D)
PDGF R alpha	H	<i>E.coli</i>	ATGP1153
PDGF R beta	H	Baculovirus	ATGP3721
PDAP1	H	<i>E.coli</i>	ATGP0658
SCF/c-kit Ligand	H	<i>E.coli</i>	SCF0601
	H	<i>E.coli</i>	ATGP3619
	M	<i>E.coli</i>	SCF0801
	M	<i>E.coli</i>	ATGP3345
CD117/c-kit	H	Baculovirus	ATGP3665
M-CSF	H	<i>E.coli</i>	ATGP0432
	H	Baculovirus	ATGP3565
	M	Baculovirus	ATGP3904
M-CSF R/CD115	H	Baculovirus	ATGP3794
G-CSF	H	<i>E.coli</i>	CSF4001
GM-CSF	H	<i>E.coli</i>	MSF0501
	M	<i>E.coli</i>	MSF0801
	P	<i>E.coli</i>	ATGP3935
GM-CSF R alpha	H	<i>E.coli</i>	ATGP2363(D)
	H	Baculovirus	ATGP3697
Thrombopoietin/TPO	H	HEK293	ATGP3970
	M	HEK293	ATGP3930

### • TGF-beta Superfamily

Product name	Species	Expression system	Cat No.
TGF-beta 1	H	<i>E.coli</i>	ATGP0383
	M	<i>E.coli</i>	ATGP2918(D)
TGF-beta 3	H	<i>E.coli</i>	ATGP3026(D)
	H	<i>E.coli</i>	BIG0601
beta IG-H3/BIGH3	H	<i>E.coli</i>	BIG0905
	H	<i>E.coli</i>	BIG0905
TGF-beta RI/ALK-5	H	Baculovirus	ATGP3735
TGF-beta RII	H	Baculovirus	ATGP3355
EIF3I	H	Baculovirus	ATGP3875
TGFBRAP1	H	<i>E.coli</i>	ATGP2588(D)
TGIF2LX	H	<i>E.coli</i>	ATGP2603
TGIF2LY	H	<i>E.coli</i>	ATGP2555
GDF-5/BMP-14	H	<i>E.coli</i>	ATGP0334
	M	<i>E.coli</i>	ATGP2894(D)
GDF-8/MSTN	H	<i>E.coli</i>	ATGP2917(D)
GDF-10/BMP-3b	H	<i>E.coli</i>	ATGP0336
GDF-11/BMP-11	H	<i>E.coli</i>	ATGP3027(D)
	H	<i>E.coli</i>	ATGP0410
GDF-15	M	<i>E.coli</i>	ATGP2913(D)
	H	<i>E.coli</i>	ATGP0410
GDNF	H	Baculovirus	ATGP3942
GFR alpha-1	R	Baculovirus	ATGP3579
GFR alpha-3	H	<i>E.coli</i>	ATGP2398(D)
	H	Baculovirus	ATGP3585
Activin A	H	<i>E.coli</i>	ATGP2979(D)
Activin C	H	<i>E.coli</i>	ATGP2223
Activin RIA/ALK-2	H	Baculovirus	ATGP3898
Activin RIIA	H	Baculovirus	ATGP3366
Inhibin A	H	<i>E.coli</i>	ATGP1898(D)
BMP-2 (monomer)	H	<i>E.coli</i>	BMP0905
	H	<i>E.coli</i>	ATGP3787
BMP-2	H	<i>E.coli</i>	ATGP3940
BMP-4 (monomer)	H	<i>E.coli</i>	BMP0904
BMP-5 (monomer)	H	<i>E.coli</i>	ATGP0350
BMP-6	H	<i>E.coli</i>	ATGP2090
BMP-7 (monomer)	H	<i>E.coli</i>	BMP0906
BMP-8b	H	<i>E.coli</i>	ATGP2743(D)
ACVRL1/ALK-1	H	Baculovirus	ATGP3205
BMPR-IA/ALK-3	H	Baculovirus	ATGP3541
BMPR-IB/ALK-6	H	<i>E.coli</i>	ATGP3104

### • IGF (Insulin Growth Factor)

Product name	Species	Expression system	Cat No.
IGF-1	H	<i>E.coli</i>	IGF0501
	R	<i>E.coli</i>	ATGP3840
IGF-2	H	<i>E.coli</i>	ATGP0836
IGFBP-3	H	<i>E.coli</i>	ATGP2991(D)
IGFBP-6	H	<i>E.coli</i>	ATGP2270
	M	Baculovirus	ATGP3411
IGFBPR1/IGFBP-7	H	<i>E.coli</i>	ATGP2483
CTGF/CCN2/IGFBP-8	H	<i>E.coli</i>	ATGP2994(D)
IGFLR1	H	<i>E.coli</i>	ATGP2053

H : Human M : Mouse R : Rat P : Porcine D : Denatured

# Growth Factor

## Related Recombinant Proteins

### • Interleukins

Product name	Species	Expression system	Cat No.
IL-1 alpha	H	<i>E. coli</i>	ATGP3864
	M	Baculovirus	ATGP3932
	R	<i>E. coli</i>	ATGP3846
	C	Baculovirus	ATGP3976
IL-1 beta	H	<i>E. coli</i>	ILB0701
	M	<i>E. coli</i>	ATGP3398
	C	<i>E. coli</i>	ATGP3956
IL-2(C145S)	H	<i>E. coli</i>	ILB0501
IL-2(C160S)	M	<i>E. coli</i>	ATGP2987
IL-2	R	<i>E. coli</i>	ATGP3889
IL-2(C147S)	C	<i>E. coli</i>	ATGP3544
IL-2(C146S)	F	<i>E. coli</i>	ATGP3611
IL-3	H	<i>E. coli</i>	ILC0702
	H	Baculovirus	ATGP3365
	M	Baculovirus	ATGP3211
IL-4	H	<i>E. coli</i>	ILD0905
	H	<i>E. coli</i>	ATGP3421
	H	HEK293	ATGP3983
IL-5	H	Baculovirus	ATGP3510
	C	Baculovirus	ATGP3985
IL-6	H	<i>E. coli</i>	ATGP0352
	H	Baculovirus	ATGP3278
	M	Baculovirus	ATGP3154
	R	Baculovirus	ATGP3711
	C	Baculovirus	ATGP3543
IL-7	H	Baculovirus	ATGP3442
IL-9	H	Baculovirus	ATGP3912
IL-12	H	Baculovirus	ATGP2843
	M	Baculovirus	ATGP3739
IL-15	H	<i>E. coli</i>	ATGP3844
	M	<i>E. coli</i>	ATGP3883
IL-21	H	<i>E. coli</i>	ATGP3861
	H	Baculovirus	ATGP3802
	C	<i>E. coli</i>	ATGP3974

### • CNTF (Ciliary Neurotrophic Factor)

Product name	Species	Expression system	Cat No.
CNTF	H	<i>E. coli</i>	ATGP1156
	H	<i>E. coli</i>	ATGP3316
	H	<i>E. coli</i>	ATGP3455
	R	<i>E. coli</i>	ATGP3219
CNTF R alpha	H	<i>E. coli</i>	ATGP3010(D)
	H	Baculovirus	ATGP3830
	R	Baculovirus	ATGP3474

### • Neurotrophin Family

Product name	Species	Expression system	Cat No.
BDNF	H	<i>E. coli</i>	ATGP3000(D)
NT-4	H	<i>E. coli</i>	ATGP1175(D)
NGF R	H	Baculovirus	ATGP3197
TrkB/NTRK2	H	Baculovirus	ATGP3264
	M	Baculovirus	ATGP3204
TrkC/NTRK3	M	Baculovirus	ATGP3946
Midkine/MK-1/NEGF-2	H	<i>E. coli</i>	ATGP0353

### • HDGF (Hepatoma Derived Growth Factor)

Product name	Species	Expression system	Cat No.
HDGF	H	<i>E. coli</i>	ATGP0402
HDGFRP3	H	<i>E. coli</i>	ATGP1366
HDGFL1	H	<i>E. coli</i>	ATGP2881

H : Human M : Mouse R : Rat C : Canine F : Feline D : Denatured

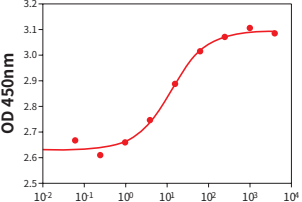
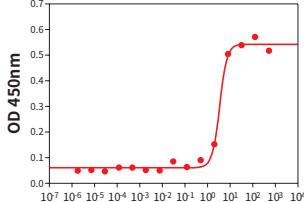
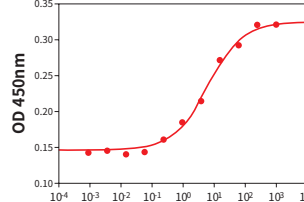
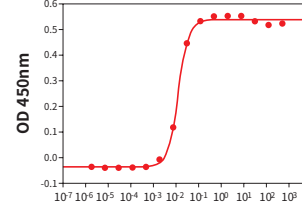
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## Biological Activity Data

BMP-2 (Cat No. ATGP3940)	VEGF-A(121) (Cat No. ATGP0282)	SCF (Cat No. ATGP3619)	GM-CSF (Cat No. MSF0501)
<p>Human BMP-2 (ng/ml)</p> 	<p>Human VEGF-A(121) (ng/ml)</p> 	<p>Human SCF (ng/ml)</p> 	<p>Mouse GM-CSF (ng/ml)</p> 
<p>Measured in an alkaline phosphatase assay using ATDC5 mouse chondrogenic cells. The ED<sub>50</sub> range ≤ 100 ng/ml.</p>	<p>Measured in a cell proliferation assay using HUVEC human umbilical vein endothelial cells. The ED<sub>50</sub> range ≤ 4 ng/ml.</p>	<p>Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED<sub>50</sub> range ≤ 10 ng/ml.</p>	<p>Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED<sub>50</sub> range ≤ 50 pg/ml.</p>