

Adipogen International is a manufacturer of comprehensive panels of new and innovative products for the advancement of

## Cancer Research



### Periostin – Cancer Stem Cell Marker

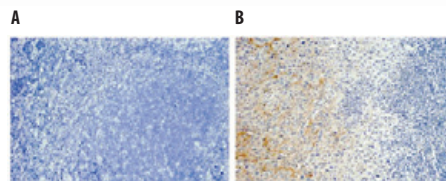
#### Specific Periostin Antibodies

##### anti-Periostin, mAb (Stiny-1)

AG-20B-0033-C100 100 µg  
 AG-20B-0033B-C100 Biotin 100 µg

**CLONE:** Stiny-1. **ISOTYPE:** Mouse IgG1κ. **IMMUNOGEN:** Full-length human periostin. **SPECIFICITY:** Recognizes human and mouse periostin. **APPLICATION:** ELISA, IHC (FS, PS), WB.

**LIT:** Interactions between cancer stem cells and their niche govern metastatic colonization: I. Malanchi, et al.; Nature **481**, 85 (2012)



**FIGURE:** Immunohistochemical staining of endogenous human Periostin in normal breast (A) and human breast cancer (B) tissues (paraffin sections) by using Periostin, mAb (Stiny-1) (Prod. No. AG-20B-0033).

#### Highly Sensitive Periostin ELISA Kits



##### Periostin (human) ELISA Kit

AG-45B-0004-KI01 96 wells  
**Species Reactivity:** Human  
**Sensitivity:** 15 pg/ml  
**Range:** 78 to 5000 pg/ml  
**Detection Type:** Colorimetric  
**Assay Type:** Sandwich  
**Sample Type:** Cell Culture Supernatant, Plasma, Serum

##### Periostin (mouse) ELISA Kit

AG-45B-0005-KI01 96 wells  
**Species Reactivity:** Mouse  
**Sensitivity:** 10 pg/ml  
**Range:** 31 to 2000 pg/ml  
**Detection Type:** Colorimetric  
**Assay Type:** Sandwich  
**Sample Type:** Cell Culture Supernatant, Plasma, Serum

**UNIQUE**

### Posttranslational Modification-Specific Tubulin Antibodies

<b>NEW</b>	anti- $\alpha$ -Tubulin (acetylated), mAb (TEU318)	ICC, WB	AG-20B-0068
<b>NEW</b>	anti-Polyglutamate Chain (polyE), pAb (IN105)	ICC, WB	AG-25B-0030
<b>NEW</b>	anti-Polyglutamylation Modification, mAb (GT335)	EM, ICC, IP, WB	AG-20B-0020

AdipoGen®

# Multimeric Proteins

Higher Activity – Lower Endotoxin

**Multimeric**  
replaces **Mega!**



AdipoGen® Multimeric Proteins are high activity constructs in which two trimeric TNFSF ligands are linked via the oligomeric collagen domain of ACRP30 [ACRP30<sub>headless</sub>] and therefore mimic the membrane-bound forms of the proteins.

## FasL (human) (multimeric) (rec.)

AG-40B-0130-C010 10 µg  
AG-40B-0130-3010 MultiPack 3 x 10 µg

*MultimericFasL™* very effectively simulates the natural membrane-assisted aggregation of FasL *in vivo*. Induces apoptosis of human Jurkat T cells at a concentration of <1ng/ml.

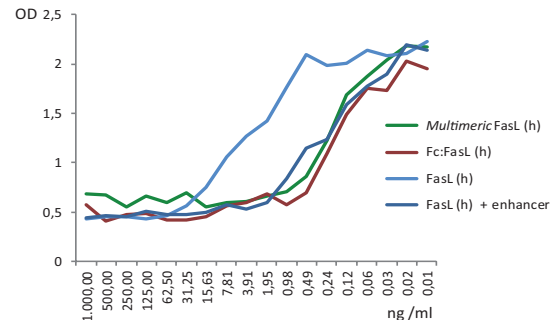
**LITERATURE:** A Fas agonist induces high levels of apoptosis in haematological malignancies: P. Greaney, et al.; Leuk. Res. 30, 415 (2006)

**CD40L (human) (multimeric) (rec.)** AG-40B-0010  
**CD40L (mouse) (multimeric) (rec.)** AG-40B-0020  
**CD40L (rat) (multimeric) (rec.)** AG-40B-0107

*MultimericCD40L™* very effectively mimics the natural membrane-assisted aggregation of CD40L. Potent B cell activator.

**LITERATURE:** IgG subclass switch capacity is low in switched and in IgM-only, but high in IgD+IgM+, post-germinal center (CD27+) human B cells: C. Werner-Favre, et al.; Eur. J. Immunol. 31, 243 (2001)

**BULK**



**FIGURE:** Oligomerisation of FasL efficiently triggers Jurkat cell death.

**METHOD:** Jurkat cells were treated O/N with the indicated concentrations of several FasL proteins (2 fold-dilutions, first concentration of 1000ng/ml). Cell death was quantified using PMS/MTS. The oligomeric FasL recombinant proteins (FasL (human) (multimeric) (rec.), Fc:FasL, Soluble (human) and FasL, Soluble (human) + Enhancer) kill Jurkat cells at IC<sub>50</sub> <0.2ng/ml.

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**BULK**

## Potent CD40 Functional Antibody with many Citations!

**anti-CD40 (mouse), mAb (FGK45)** FACS, FUNC (Activation) AG-20B-0036  
Activates B and NK cells *in vivo* and *in vitro*!

## Potent Cell Death Antibodies

**THE STANDARDS**

<b>anti-Fas (human), mAb (APO-1-3)</b> Induces apoptosis!	FACS, FUNC (Activation), IP, WB	AG-20B-0062
<b>anti-Apaf-1 (human), mAb (2E12)</b>	ICC, IHC, IP, WB	AG-20T-0132
<b>anti-Apaf-1 (mouse/rat), mAb (13F11)</b>	ICC, IP, WB	AG-20T-0133
<b>anti-Bim<sub>S/EL/L</sub>, mAb (3C5)</b>	FACS, ICC, IHC, IP, WB	AG-20T-0142
<b>anti-Bmf, mAb (9G10)</b>	FACS, IP, WB	AG-20T-0130
<b>anti-Bmf (mouse/rat), mAb (17A9)</b>	FACS, ICC, IHC, IP, WB	AG-20T-0131
<b>anti-Caspase-2, mAb (11B4)</b>	IP, WB	AG-20T-0136
<b>anti-Caspase-8 (human), mAb (C15)</b>	ICC, IP, WB	AG-20B-0057
<b>anti-Caspase-8 (mouse), mAb (1G12)</b>	FACS, ICC, WB	AG-20T-0137
<b>anti-FLIP (human), mAb (NF6)</b>	ICC, IHC, WB	AG-20B-0056
<b>anti-FLIP, mAb (Dave-2)</b>	IP, WB	AG-20B-0005

Visit [www.adipogen.com](http://www.adipogen.com) for a Broad Range of Cell Death-related Antibodies and Inhibitors!

## Highly Potent TRAIL Reagents

**BULK**

Oligomerized TRAIL protein non-toxic to hepatocytes, suitable for *in vitro* and *in vivo* use.

**izTRAIL™, Soluble (human) (rec.)** AG-40B-0069

Oligomerized TRAIL proteins that do not require a cross-linking enhancer for their potent biological activity.

**KillerTRAIL™ (human) (rec.)** AG-40T-0001

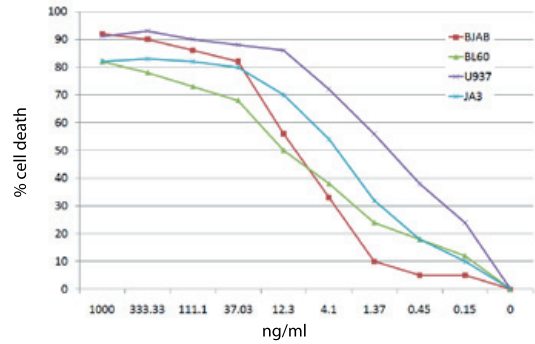
**SuperKillerTRAIL™ (human) (rec.)** AG-40T-0002

**SuperKillerTRAIL™ (mouse) (rec.)** AG-40T-0004

### Also available:

**TRAIL, Soluble (human) (rec.)** AG-40B-0003

**EnhancedTRAIL, (human) (rec.) Pack** AG-44B-0002



**FIGURE:** Apoptosis of TRAIL-sensitive tumor cells. Concentration dependence of apoptosis induction in BJAB cells, BL60-cells, U937-cells, and JA3-cells by izTRAIL, Soluble (human) (rec.) (Prod. No. AG-40B-0069) reveals high activity even at concentrations of 10-100ng/ml.

Visit [www.adipogen.com](http://www.adipogen.com) for Highly Specific TRAIL-R Antibodies for FACS and IHC!

## Potent Immune Checkpoints Receptor & Ligand Proteins

**BULK**

CTLA-4 (human):Fc (human) (rec.)	CHI-HF-210A4	Tim-3 (mouse):Fc (human) (rec.)	CHI-MF-111T3
CTLA-4 (mouse):Fc (mouse) (rec.)	CHI-MF-110A4	CD40 (human):Fc (human) (rec.)	AG-40B-0083
CTLA-4 (mouse):Fc (mouse) (rec.) (non-lytic)	CHI-MF-120A4	OX40 (human):Fc (human) (rec.)	AG-40B-0014
PD-1 (human):Fc (human) (rec.)	CHI-HF-210PD1	PD-L1 (human):Fc (human) (rec.)	CHI-HF-210PDL1
PD-1 (human):Fc (human) (rec.) (non-lytic)	CHI-HF-220PD1	PD-L1 (human):Fc (human) (rec.) (non-lytic)	CHI-HF-220PDL1
ICOS (human):Fc (human) (rec.)	CHI-HF-210ICOS	PD-L1 (mouse):Fc (mouse) (rec.)	CHI-MF-110PDL1
ICOS (human):Fc (human) (rec.) (non-lytic)	CHI-HF-220ICOS	PD-L1 (mouse):Fc (mouse) (rec.) (non-lytic)	CHI-MF-120PDL1
LAG-3 (human):Fc (human) (rec.)	AG-40B-0031	PD-L2 (human):Fc (human) (rec.) (non-lytic)	CHI-HF-220PDL2
LAG-3 (mouse):Fc (mouse) (rec.)	AG-40B-0039	B7-H2 (mouse):Fc (mouse) (rec.)	CHI-MF-110B7H2
Tim-3 (human):Fc (human) (rec.)	CHI-HF-210T3	B7-H4 (human):Fc (human) (rec.)	CHI-HF-210B7H4

## Immune Checkpoints Antibodies

### SPECIES Abbreviations:

Hu = Human; Ms = Mouse; Mk = Monkey; Prm = Primate

PID	PRODUCT NAME	SOURCE/ISOTYPE	APPLICATION	SPECIES
ANC-176-020	CD27 (human), mAb (M-T271)	Ms IgG1	ELISA, FACS	Hu
ANC-359-020	CD152 [CTLA-4] (human), mAb (ANC152.2/8H5)	Ms IgG1κ	ELISA, FACS	Hu
AG-20B-0049	CD272 [BTLA] (human), mAb (6F4)	Rt IgG1	ELISA, FACS, FUNC (Blocking)	Hu
ANC-265-020	CD278 [ICOS] (human), mAb (ANC6C6)	Ms IgG1κ	ELISA, FACS, FUNC (Blocking)	Hu
ANC-279-020	CD279 [PD-1] (human), mAb (ANC4H6)	Ms IgG1κ	ELISA, FACS	Hu
AG-20B-0012	LAG-3 (human), mAb (blocking) (17B4)	Ms IgG1	FUNC (Blocking), ICC, IHC, IP, WB	Hu
AG-20B-0011	LAG-3, mAb (blocking) (11E3)	Ms IgG1	ELISA, FUNC (Blocking), ICC, IHC, IP, WB	Hu, Mk
AG-20A-0030	Tim-3 (mouse), mAb (TI 142F)	Rt IgG2ak	ELISA, FACS	Ms
ANC-177-020	CD28 (human), mAb (ANC28.1/5D10)	Ms IgG1κ	ELISA, FACS, FUNC	Hu
ANC-355-020	CD134 [OX40] (human), mAb (BerAct35)	Ms IgG1	ELISA, FACS, IHC	Hu
ANC-360-020	CD137 [4-1BB] (human), mAb (4B4-1)	Ms IgG1κ	ELISA, FACS, FUNC (Blocking)	Hu, Mk
ANC-274-020	CD274 [B7-H1/PD-L1] (human), mAb (ANC6H1)	Ms IgG1κ	ELISA, FACS	Hu
ANC-100-020	CD80 [B7-1] (human), mAb (BB1)	Ms IgMk	ELISA, FACS, FUNC (Blocking), WB	Hu, Prm
ANC-110-020	CD80 [B7-1] (human), mAb (P1.H1.A1.A1)	Ms IgG1	ELISA, FACS, FUNC (Blocking)	Hu
ANC-307-020	CD86 (human), mAb (BU63)	Ms IgG1	FACS, FUNC (Blocking)	Hu, Prm
ANC-263-020	CD275 [B7-H2/ICOSL] (human), mAb (ANC4E3)	Ms IgG1κ	ELISA	Hu
ANC-353-020	CD40L [CD154] (human), mAb (24-31)	Ms IgG1	ELISA, FACS, FUNC (Blocking), IHC, WB	Hu, Prm
ANC-222-020	CD70 (human), mAb (BU69)	Ms IgG1	ELISA, FACS, FUNC (Blocking), ICC, IHC	Hu, Prm
AG-20A-0031	CD137L [4-1BBL] (human), mAb (41B436)	Ms IgG1κ	ELISA, FACS, WB	Hu
ANC-400-020	CD252 [OX40L] (human), mAb (ANC10G1)	Ms IgG1κ	ELISA, FACS, FUNC (Blocking)	Hu
ANC-270-020	CD270 [HVEM] (human), mAb (ANC3B7)	Ms IgG2ak	ELISA, FACS	Hu

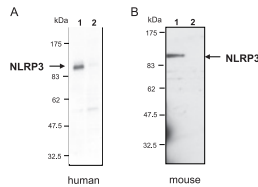
FROM THE EXPERT & VALIDATED BY EXPERT LABORATORIES!

## Inflammasome Research Antibodies

THE STANDARDS

### Unique NLRP3 Antibody

anti-NLRP3/NALP3, mAb (Cryo-2)  
ICC, IHC, IP, WB AG-20B-0014-C100



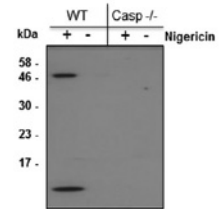
**FIGURE:** Human and mouse NLRP3/NALP3 are detected in THP1 cells or mouse macrophages, respectively, using anti-NLRP3/NALP3, mAb (Cryo-2) (Prod. No. AG-20B-0014) but not in THP1 expressing shRNA-hNLRP3 (A, lane 2) or NLRP3/NALP3 KO mce (B, lane 2).

### Detect Activated p10 & p20 Caspase-1 by WB

anti-Caspase-1 (p10) (mouse), mAb (Casper-2) AG-20B-0044  
anti-Caspase-1 (p20) (mouse), mAb (Casper-1) AG-20B-0042  
anti-Caspase-1 (p20) (human), mAb (Bally-1) AG-20B-0048

**FIGURE:** Mouse caspase-1 (p10) is detected by immunoblotting using anti-Caspase-1 (p10) (mouse), mAb (Casper-2) (Prod. No AG-20B-0044).

**METHOD:** Caspase-1 was analyzed by Western blot in supernatants of differentiated bone marrow-derived dendritic cells (BMDCs) from wild-type and caspase-1<sup>-/-</sup> mice activated or not by 5μM nigericin (Prod. No. AG-CN2-0020) for 30 min. Supernatants (30μl) were separated by SDS-PAGE under reducing conditions, transferred to nitrocellulose and incubated with anti-Caspase-1 (p10) (mouse), mAb (Casper-2) (1μg/ml). Proteins were visualized by a chemiluminescence detection system.



**LITERATURE REFERENCES FOR CASPER-1, CASPER-2 AND CRYO-2:** The adaptor ASC has extracellular and 'prionoid' activities that propagate inflammation: B.S. Franklin, et al.; Nat. Immunol. 15, 727 (2014). The NLRP3 inflammasome is released as a particulate danger signal that amplifies the inflammatory response: A. Baroja-Mazo, et al.; Nat. Immunol. 15, 738 (2014)

anti-Asc [Pycard], pAb (AL177)	ICC, IHC, IP, WB, FUNC	AG-25B-0006
anti-AIM2 (human), mAb (3B10)	ICC, WB	AG-20B-0040
anti-Caspase-4/11 (p20), mAb (Flamy-1)	IP, WB	AG-20B-0060
anti-Caspase-11 (p20) (mouse), mAb (Flamy-2)	ELISA, WB	AG-20B-0061
anti-RIG-I, mAb (Alme-1)	IHC, IP, WB	AG-20B-0009

## Biologically Active Notch Ligands

BULK

DLK1 (human) (rec.)	AG-40A-0133	DLL3 (human) (rec.)	AG-40B-0151
DLK1 (human):Fc (human) (rec.)	AG-40B-0152	DLL3 (ED) (mouse):Fc (human) (rec.)	AG-40A-0178
DLK1 (mouse):Fc (human) (rec.)	AG-40A-0107Y	DLL4 (human):Fc (human) (rec.)	AG-40A-0077Y
DLL1 (human) (rec.)	AG-40A-0073	DLL4 (mouse):Fc (human) (rec.)	AG-40A-0145
DLL1 (human):Fc (human) (rec.)	AG-40A-0116Y	Jagged-1 (human):Fc (human) (rec.)	AG-40A-0081
DLL1 (mouse):Fc (human) (rec.)	AG-40A-0148	Jagged-2 (human):Fc (human) (rec.)	AG-40A-0155Y

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