ARG43630
anti-TIMP1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TIMP1
Tested Reactivity	Ms, Rat
Tested Application	FACS, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TIMP1
Species	Mouse
Immunogen	Recombinant protein corresponding to a.a. H31-N193 of Mouse TIMP1.
Conjugation	Un-conjugated
Alternate Names	Erythroid-potentiating activity; TIMP; Collagenase inhibitor; Fibroblast collagenase inhibitor; TIMP-1; EPO; CLGI; Tissue inhibitor of metalloproteinases 1; HCI; Metalloproteinase inhibitor 1; EPA

Application Instructions

Application table

Application	Dilution
FACS	1 - 3 µg / 1X10^6 cells
WB	1:500 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 28 kDa

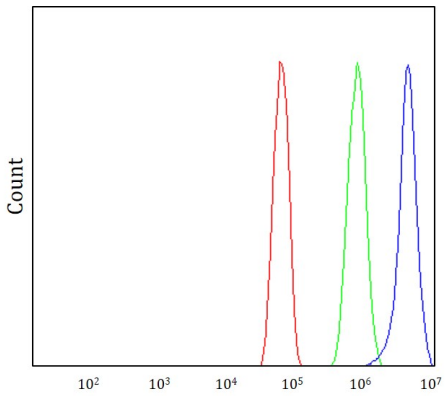
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4 and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

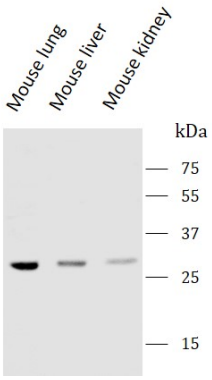
Gene Symbol	TIMP1
Gene Full Name	TIMP metallopeptidase inhibitor 1
Background	This gene belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction. [provided by RefSeq, Jul 2008]
Function	Metalloproteinase inhibitor that functions by forming one to one complexes with target metalloproteinases, such as collagenases, and irreversibly inactivates them by binding to their catalytic zinc cofactor. Acts on MMP1, MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP11, MMP12, MMP13 and MMP16. Does not act on MMP14. Also functions as a growth factor that regulates cell differentiation, migration and cell death and activates cellular signaling cascades via CD63 and ITGB1. Plays a role in integrin signaling. Mediates erythropoiesis in vitro; but, unlike IL3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. [UniProt]
Calculated Mw	23 kDa
PTM	The activity of TIMP1 is dependent on the presence of disulfide bonds. N-glycosylated.
Cellular Localization	Secreted

Images



ARG43630 anti-TIMP1 antibody FACS image

Flow Cytometry: RH35 stained with ARG43630 anti-TIMP1 antibody at 1 µg / 10^6 cells dilution.



ARG43630 anti-TIMP1 antibody WB image

Western blot: Mouse lung, Mouse liver and Mouse kidney stained with ARG43630 anti-TIMP1 antibody at 0.5 µg/mL dilution.