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Recombinant Anti-MetaP2 Rabbit mAb

Catalog # AP95272

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	P50579
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	52892

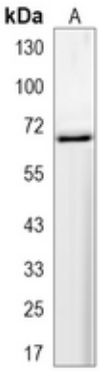
Additional Information

Gene ID	10988
Other Names	MNPEP; P67EIF2; Methionine aminopeptidase 2; MAP 2; MetAP 2; Initiation factor 2-associated 67 kDa glycoprotein; p67; p67eIF2; Peptidase M
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human MetaP2 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

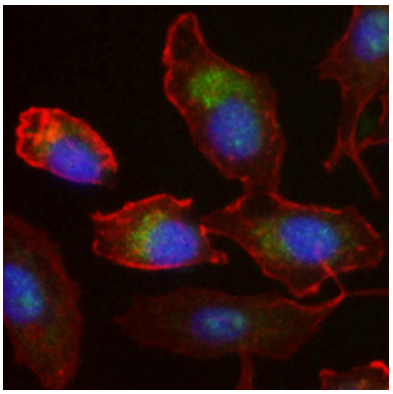
Protein Information

Name	METAP2 {ECO:0000255|HAMAP-Rule:MF_03175}
Synonyms	MNPEP, P67EIF2
Function	Cotranslationally removes the N-terminal methionine from nascent proteins. The N-terminal methionine is often cleaved when the second residue in the primary sequence is small and uncharged (Met- Ala-, Cys, Gly, Pro, Ser, Thr, or Val). The catalytic activity of human METAP2 toward Met-Val peptides is consistently two orders of magnitude higher than that of METAP1, suggesting that it is responsible for processing proteins containing N-terminal Met-Val and Met-Thr sequences in vivo.
Cellular Location	Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03175, ECO:0000269|PubMed:21537465}. Note=About 30% of expressed METAP2 associates with polysomes

Images



Western blot analysis of MetaP2 expression in HeLa (A) whole cell lysates. (Predicted band size: 53 kD; Observed band size: 67 kD)



Immunofluorescent analysis of MetaP2 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).