

Rabbit anti-Mouse methionyl aminopeptidase 2/METAP2 Polyclonal Antibody | anti-METAP2 antibody

Anti-methionyl aminopeptidase 2/METAP2 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257172	Rabbit	Mouse	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

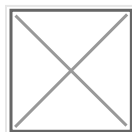
PRODUCT SYNONYMS

methionyl aminopeptidase 2/METAP2; Polyclonal Antibody; Anti-methionyl aminopeptidase 2/METAP2 Antibody; Rabbit Polyclonal; METAP2/MAP2 Antibody; Rabbit PAb; Antigen Affinity Purified; methionyl aminopeptidase 2; Anti-4930584B20Rik Antibody; Anti-A930035J23Rik Antibody; Anti-AI047573 Antibody; Anti-AL024412 Antibody; Anti-Amp2 Antibody; Anti-AU014659 Antibody; Anti-Mnpep Antibody; Anti-p67 Antibody; Anti-p67eIF2 Antibody; anti-METAP2 antibody

PRODUCT SPECIFICATIONS

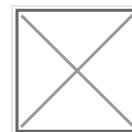
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse methionyl aminopeptidase 2/METAP2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-METAP2 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse METAP2/MAP2 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse METAP2/MAP2 (rM METAP2/MAP2). METAP2/MAP2 specific IgG was purified by Mouse METAP2/MAP2 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-METAP2 rabbit polyclonal antibody at 1:500 dilution Lane A: HepG2 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 52 kDa Observed band size: 63 kDa



IP (Immunoprecipitation)

Mouse METAP2 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate 2 uL anti-Mouse METAP2 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-Mouse METAP2 rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution Developed using the DAB staining technique. Performed under reducing conditions. Predicted band size: 52 kDa Observed band size: 72 kDa



IHC (Immunohistochemistry)

Immunochemical staining of mouse METAP2 in mouse kidney with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-METAP2 antibody	METAP2 (Methionine aminopeptidase 2), also known as MAP2 is a protein that belongs to the peptidase M24A family. MAP2 binds 2 cobalt or manganese ions and contains approximately 12 O-linked N-acetylglucosamine (GlcNAc) residues. It is found in all organisms and is especially important because of its critical role in tissue repair and protein degradation. The catalytic activity of human MAP2 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. This protein functions both by protecting the alpha subunit of eukaryotic initiation factor 2 from inhibitory phosphorylation and by removing the amino-terminal methionine residue from nascent protein. MAP2 protects eukaryotic initiation factor EIF2S1 from translation-inhibiting phosphorylation by inhibitory kinases such as EIF2AK2/PKR and EIF2AK1/HCR. It also plays a critical role in the regulation of protein synthesis.
References	Bennett, et al. (1997) EPR Studies on the Mono-and Dicobalt (II)-Substituted Forms of the Aminopeptidase from Aeromonas proteolytica. Insight into the Catalytic Mechanism of Dinuclear Hydrolases. J Am Chem Soc. 119:1923-33.Johansson, et al. (2008) Dicobalt II-II, II-III, and III-III Complexes as Spectroscopic Models for Dicobalt Enzyme Active Sites. Inorg Chem. 47:5079-92.Bradshaw, et al. (2002) Aminopeptidases and angiogenesis. Essays Biochem. 38: 5-78.

NCBI AND UNIPROT INFORMATION

NCBI GI #	9789873
NCBI GeneID	56307
NCBI Accession #	NP_062622.1
NCBI GenBank Nucleotide #	NM_019648.3
UniProt Accession #	O08663
Molecular Weight	52,922 Da
NCBI Official Full Name	methionine aminopeptidase 2
NCBI Official Synonym Full Names	methionine aminopeptidase 2
NCBI Official Symbol	Metap2
NCBI Official Synonym Symbols	p67; Amp2; Mnpep; p67eIF2; AI047573; AL024412; AU014659; 4930584B20Rik; A930035J23Rik
NCBI Protein Information	methionine aminopeptidase 2; MAP 2; metAP 2; peptidase M 2; eIF-2-associated p67; initiation factor 2-associated protein (p67); initiation factor 2-associated 67 kDa glycoprotein
UniProt Protein Name	Methionine aminopeptidase 2
UniProt Gene Name	Metap2
UniProt Synonym Gene Names	Mnpep; P67eif2; MAP 2; MetAP 2; p67; p67eIF2
UniProt Entry Name	MAP2_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.