

Datasheet for ABIN7320247
METAP2 Protein (His tag)[Go to Product page](#)

1 Image

Overview

| | |
|-------------------------------|-----------------------------------------------|
| Quantity: | 50 µg |
| Target: | METAP2 |
| Origin: | Mouse |
| Source: | Baculovirus infected Insect Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This METAP2 protein is labelled with His tag. |

Product Details

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|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose: | Recombinant Mouse METAP2 Protein (His Tag)(Active) |
| Sequence: | Ala 2-Tyr 478 |
| Characteristics: | A DNA sequence encoding the mouse METAP2 (O08663) (Ala 2-Tyr 478) was expressed, with a C-terminal polyhistidine tag. |
| Purity: | > 88 % as determined by SDS-PAGE |
| Endotoxin Level: | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Biological Activity Comment: | Measured by its ability to remove methionine from a fluorogenic peptide substrate H-Met-Gly-Pro-AMC (Catalog # ES017). The resulting GP-AMC is cleaved by Recombinant Human DPPIV/CD26 (Catalog # 1180-SE). The specific activity is >15 pmol/min/g |

Target Details

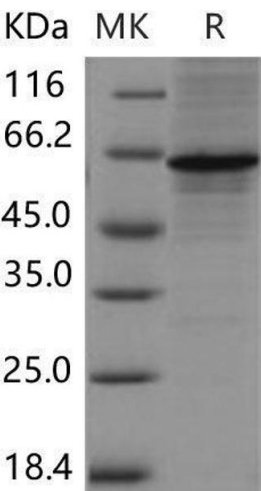
| | |
|---------|--------|
| Target: | METAP2 |
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Target Details

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| Alternative Name: | METAP2 (METAP2 Products) |
| Background: | <p>Background: METAP2 (Methionine aminopeptidase 2), also known as MAP2 is a protein which 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.</p> <p>Synonym:</p> <p>4930584B20Rik,A930035J23Rik,AI047573,AL024412,Amp2,AU014659,Mnpep,p67,p67eIF2</p> |
| Molecular Weight: | 54.3 kDa |
| UniProt: | O08663 |
| Pathways: | Regulation of G-Protein Coupled Receptor Protein Signaling |

Application Details

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| Restrictions: | For Research Use only |
| Handling | |
| Format: | Lyophilized |
| Reconstitution: | Please refer to the printed manual for detailed information. |
| Buffer: | Lyophilized from sterile 50 mM Tris, 100 mM NaCl, pH 8.0, 10 % glycerol |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | <p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p> |



Western Blotting

Image 1.