For Research Use Only

MBP-Tag Polyclonal antibody

Catalog Number:15089-1-AP 40 Publications

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Basic Information

Catalog Number:
15089-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0942

GenBank Accession Number:

GeneID (NCBI):

Full Name:

Calculated MW:
40 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:6000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP, ELISA

Species Specificity:
recombinant protein

Cited Species:
mouse

Positive Controls:

WB : lane1: MBP-NOL6 64kd; lane2 MBP 42kd, Recombinant protein, transfected HEK-293T cells

Background Information

Protein tags are protein or peptide sequences located either on the C- or N- terminal of the target protein, which facilitates one or several of the following characteristics: solubility, detection, purification, localization and expression. Maltose binding protein (MBP) is the 370 amino acid product of the E.coli mal E gene. MBP is a useful affinity tag that can increase the expression level and solubility of the resulting tagged protein. The MBP tag also promotes proper folding of the attached protein. Plasmid vectors have been constructed utilizing the MBP domain that allow the synthesis of high levels of MBP-fusion proteins that can be purified in a one step procedure by affinity chromatography cross linked amylose resin. Once bound to amylose, the MBP protein can then be separated from the target protein by cleavage by coagulation Factor Xa at a specific four residue site. Alternatively, the intact fusion protein can be specifically eluted from the resin by the addition of excess free maltose. Subsequent to elution, MBP fusion protein can be visualized either by western blot analysis or immunoprecipitation using antibodies specific for the MBP-tag. This antibody recognizes MBP (Maltose binding protein) TAG in some expression systems.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhaoyang Li	31666698	Nature	
Baocheng Yang	31657525	J Biophotonics	
Di Zhan	33075801	Pediatr Res	IHC

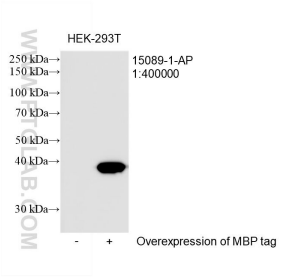
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

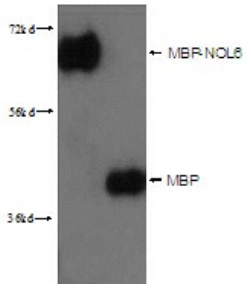
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Non-transfected or MBP-tagged transfected HEK-293T cells were subjected to SDS PAGE followed by western blot with 15089-1-AP (MBP tag antibody) at dilution of 1:400000 incubated at room temperature for 1.5 hours



lane1: MBP-NOL6 64kd; lane2 MBP 42kd were subjected to SDS PAGE followed by western blot with 15089-1-AP (MBP-Tag Antibody) at dilution of 1:3000.