

TPP2 polyclonal antibody

Catalog: BS67320

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Tripeptidyl-peptidase 2 (TPP2) is a well-conserved subtilisin-like amino peptidase that is expressed predominantly in the cytoplasmic compartment. The amino-terminal region of TPP2 harbors a catalytic triad that is characteristic of serine proteases and allows for TPP2 cleavage of tripeptides from the free amino terminus of oligopeptide substrates. TPP2 is a large (>5MDa) homo-oligomeric protease in which proteolytic activity is regulated by subunit oligomerization. While TPP2 plays a general role in amino acid homeostasis, research studies demonstrate that TPP2 is involved in MHC class I antigen presentation and DNA-damage repair. TPP2 activity is required for the survival of Burkitt's lymphoma cells, suggesting a possible role for TPP2 in oncogenesis. Additional research studies show that TPP2 proteolytic activity is important for regulating lysosome abundance and glycolytic metabolism and that TPP2 deficiency leads to defects in adaptive immunity, innate immunity, and nervous system development.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 135 kDa

Swiss-Prot:

P29144

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB (1/500 - 1/2000), IHC (1/50 - 1/200), IF/ICC (1/50 - 1/200)

Storage&Stability:

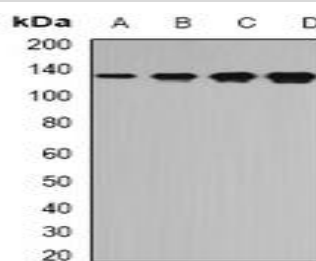
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

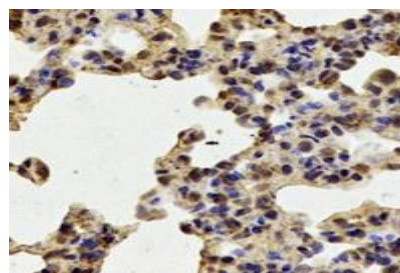
Specificity:

Recognizes endogenous levels of TPP2 protein.

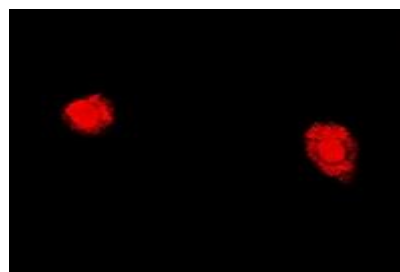
DATA:



Western blot analysis of TPP2 expression in Jurkat (A), SW620 (B), mouse brain (C), mouse spleen (D) whole cell lysates.



Immunohistochemical analysis of TPP2 staining in mouse lung formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of TPP2 staining in U2OS cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for

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PRODUCT DATA SHEET

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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 humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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