abcam

Product datasheet

Anti-NPEPPS antibody [2649C4a] ab76558

1 Image

Overview

Product name	Anti-NPEPPS antibody [2649C4a]
Description	Mouse monoclonal [2649C4a] to NPEPPS
Host species	Mouse
Tested applications	**Suitable for:** WB, Dot blot
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment comprising of 50-200 amino acids from the internal region of human NPEPPS.
Positive control	Recombinant fragment of human NPEPPS.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: 1% BSA, 0.03% Potassium phosphate, 0.812% Sodium chloride, 0.1312% Sodium phosphate, 0.0225% Potassium chloride, PBS
Purity	Protein G purified
Purification notes	ab76558 was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum and filtered through a 0.22µm membrane.
Clonality	Monoclonal
Clone number	2649C4a
Isotype	IgG2a

Applications

Our Abpromise guarantee covers the use of **ab76558** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.2 - 2 µg/ml. Detects a band of approximately 39 kDa (predicted molecular weight: 103 kDa).
Dot blot		Use at an assay dependent dilution.

Target

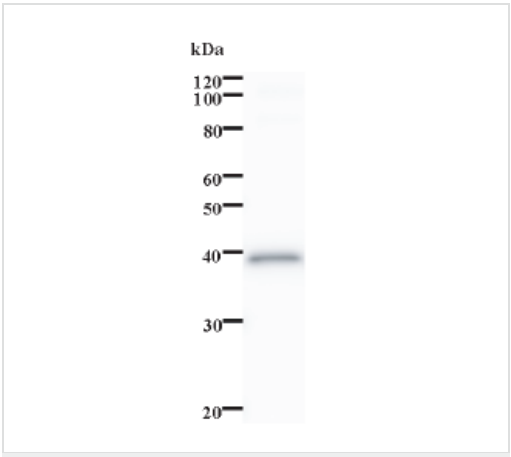
Function
Aminopeptidase with broad substrate specificity for several peptides. Involved in proteolytic events essential for cell growth and viability. May act as regulator of neuropeptide activity. Plays a role in the antigen-processing pathway for MHC class I molecules. Involved in the N-terminal trimming of cytotoxic T-cell epitope precursors. Digests the poly-Q peptides found in many cellular proteins. Digests tau from normal brain more efficiently than tau from Alzheimer disease brain.

Tissue specificity
Detected in liver, epithelium of renal tubules, epithelium of small and large intestine, gastric epithelial cells, and alveoli of the lung (at protein level).

Sequence similarities
Belongs to the peptidase M1 family.

Cellular localization
Cytoplasm > cytosol. Nucleus.

Images



Western blot - Anti-NPEPPS antibody [2649C4a] (ab76558)

Anti-NPEPPS antibody [2649C4a] (ab76558) at 2 µg/ml + immunising recombinant protein

Predicted band size: 103 kDa
Observed band size: 39 kDa
why is the actual band size different from the predicted?

The molecular weight of the band on the western blot does not correspond to the molecular weight of the natural protein because only a fragment of the protein was used.

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