


Product datasheet

Anti-STEP / PTPN5 antibody [23E5] ab77807

1 References 1 Image

Overview

Product name	Anti-STEP / PTPN5 antibody [23E5]
Description	Mouse monoclonal [23E5] to STEP / PTPN5
Host species	Mouse
Specificity	ab77807 recognizes STEP61, STEP46, STEP38 and STEP20. Additional isoforms may be detected with higher concentrations of cell lysates and/or antibody.
Tested applications	Suitable for: IHC-FoFr, WB, IP
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Cow 
Immunogen	Synthetic peptide: MCTPGCNEEGFGYLVSPR conjugated to KLH, corresponding to amino acids 57-74 of Rat STEP/ PTPN5 Run BLAST with Run BLAST with
Positive control	Whole rat brain preparations.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium Azide Constituents: 30% Glycerol, 0.15M Sodium chloride, 0.1M Tris glycine, pH 7.4
Purity	Protein G purified
Clonality	Monoclonal
Clone number	23E5
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab77807** in the following tested applications.

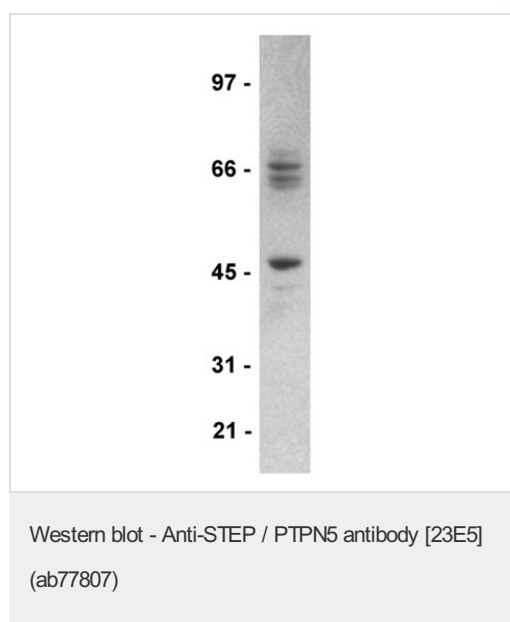
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-FoFr		Use at an assay dependent dilution.
WB		1/1000 - 1/10000. Detects a band of approximately 64 kDa (predicted molecular weight: 64 kDa).
IP		Use at 8 µg/mg of lysate.

Target

Function	May regulates the activity of several effector molecules involved in synaptic plasticity and neuronal cell survival, including MAPKs, Src family kinases and NMDA receptors.
Sequence similarities	Belongs to the protein-tyrosine phosphatase family. Non-receptor class subfamily. Contains 1 tyrosine-protein phosphatase domain.
Post-translational modifications	Phosphorylation at Ser-245 by PKA deactivates PTPN5. Phosphorylation at Thr-255 and Ser-268 by MAPKs stabilizes the phosphatase, dephosphorylation of these sites results in ubiquitin-mediated degradation of the active phosphatase.
Cellular localization	Endoplasmic reticulum membrane.

Images



Anti-STEP / PTPN5 antibody [23E5] (ab77807) at 1/5000 dilution + Whole rat brain preparations

Predicted band size: 64 kDa

Observed band size: 46,66 kDa

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