


## Product datasheet

# Anti-STEP / PTPN5 antibody [23E5] ab77807

[1 References](#) [1 Image](#)

### Overview

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

### Properties

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

### Applications

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

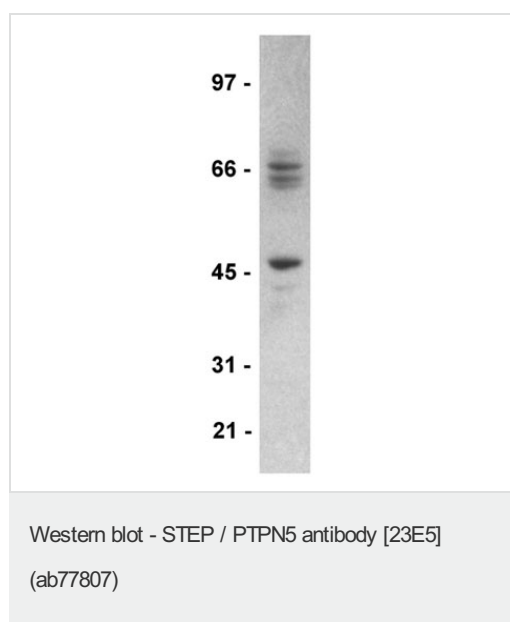
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

<b>Function</b>	May regulates the activity of several effector molecules involved in synaptic plasticity and neuronal cell survival, including MAPKs, Src family kinases and NMDA receptors.
<b>Sequence similarities</b>	Belongs to the protein-tyrosine phosphatase family. Non-receptor class subfamily. Contains 1 tyrosine-protein phosphatase domain.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	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

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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