


### Anti-PTPN12 antibody ab76942

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#### Overview

<b>Product name</b>	Anti-PTPN12 antibody
<b>Description</b>	Rabbit polyclonal to PTPN12
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Rabbit, Horse, Guinea pig, Cow, Dog, Chimpanzee, Rhesus monkey, Gorilla, Orangutan, Platypus 
<b>Immunogen</b>	Synthetic peptide corresponding to a region between residue 760 and 780 of human PTPN12 (NP_002826.2)
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 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>	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab76942 was affinity purified using an epitope specific to PTPN12 immobilized on solid support. Antibody concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab76942 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		1/2000 - 1/10000. Predicted molecular weight: 88 kDa.
IP		Use at 2-5 µg/mg of lysate.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

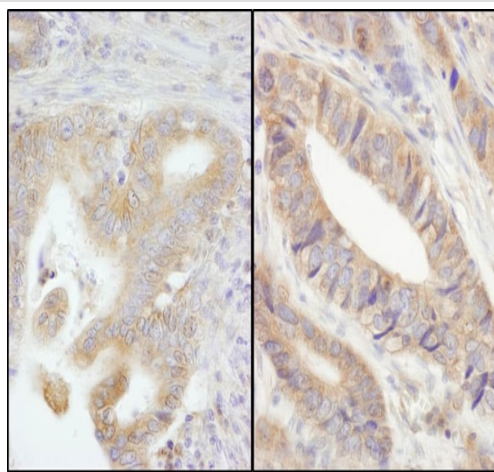
### Sequence similarities

Belongs to the protein-tyrosine phosphatase family. Non-receptor class 4 subfamily.  
Contains 1 tyrosine-protein phosphatase domain.

### Cellular localization

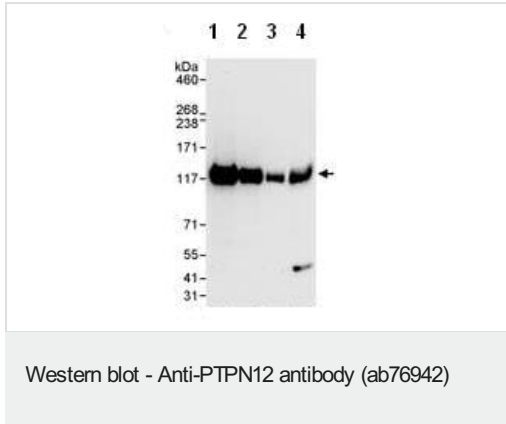
Cytoplasm.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human stomach carcinoma (left) and colon carcinoma (right) tissues labelling PTPN12 with ab76942 at 1/200 (1µg/ml). Detection: DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PTPN12 antibody (ab76942)



**All lanes :** Anti-PTPN12 antibody (ab76942) at 0.04 µg/ml

**Lane 1 :** HeLa whole cell lysate at 50 µg

**Lane 2 :** HeLa whole cell lysate at 15 µg

**Lane 3 :** HeLa whole cell lysate at 5 µg

**Lane 4 :** mouse NIH3T3 whole cell lysate at 50 µg

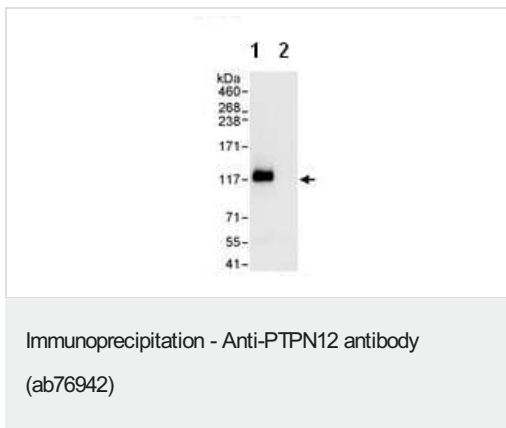
Developed using the ECL technique.

**Predicted band size:** 88 kDa

**Observed band size:** 118 kDa

**Additional bands at:** 45 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 30 seconds



Lane 1: ab76942, at 1 µg/mg, staining PTPN12 in HeLa whole cell lysate by Western blot of immunoprecipitate (1 mg of lysate for IP, 20% of IP loaded). Immunoprecipitation was performed by using ab76942 at 3µg/mg of lysate.

Lane 2: Control IgG.

Detection: Chemiluminescence with an exposure time of 3 seconds.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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