


## Product datasheet

### Anti-Ezrin (phospho T567) antibody ab47293

★★★★★ [3 Abreviews](#) [16 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-Ezrin (phospho T567) antibody
<b>Description</b>	Rabbit polyclonal to Ezrin (phospho T567)
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody detects endogenous levels of Ezrin only when phosphorylated at Threonine 567. This antibody will also react with Moesin at Threonine 577 and Radixin at Threonine 564.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide corresponding to Human Ezrin (phospho T567). Database link: <a href="#">P15311</a>
<b>Positive control</b>	Extracts from A431 cells.
<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. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	The antibody was purified using epitope specific phosphopeptide. The antibody against non phosphopeptide was removed by chromatography using non phosphopeptide corresponding to the phosphorylation site.

<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

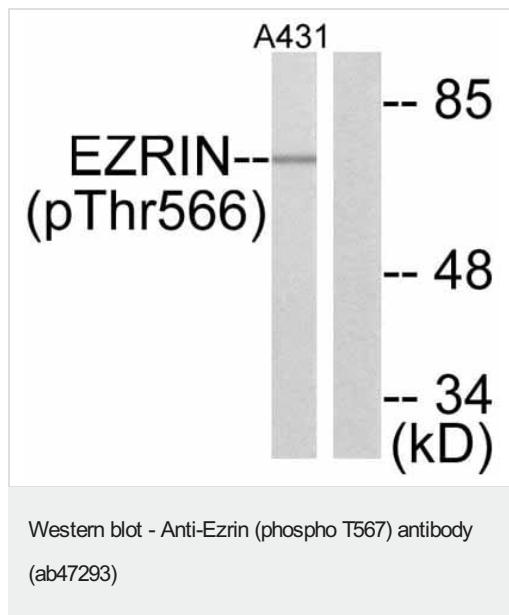
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab47293 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	1/500 - 1/1000. Detects a band of approximately 69 kDa (predicted molecular weight: 69 kDa).
IHC-P		Use a concentration of 1 µg/ml.

## Target

<b>Function</b>	Probably involved in connections of major cytoskeletal structures to the plasma membrane. In epithelial cells, required for the formation of microvilli and membrane ruffles on the apical pole. Along with PLEKHG6, required for normal macropinocytosis.
<b>Tissue specificity</b>	Expressed in cerebral cortex, basal ganglia, hippocampus, hypophysis, and optic nerve. Weakly expressed in brain stem and diencephalon. Stronger expression was detected in gray matter of frontal lobe compared to white matter (at protein level). Component of the microvilli of intestinal epithelial cells. Preferentially expressed in astrocytes of hippocampus, frontal cortex, thalamus, parahippocampal cortex, amygdala, insula, and corpus callosum. Not detected in neurons in most tissues studied.
<b>Sequence similarities</b>	Contains 1 FERM domain.
<b>Developmental stage</b>	Very strong staining is detected in the Purkinje cell layer and in part of the molecular layer of the infant brain compared to adult brain.
<b>Post-translational modifications</b>	Phosphorylated by tyrosine-protein kinases.
<b>Cellular localization</b>	Apical cell membrane. Cell projection. Cell projection > microvillus membrane. Cell projection > ruffle membrane. Cytoplasm > cell cortex. Cytoplasm > cytoskeleton. Localization to the apical membrane of parietal cells depends on the interaction with MPP5. Localizes to cell extensions and peripheral processes of astrocytes (By similarity). Microvillar peripheral membrane protein.

## Images



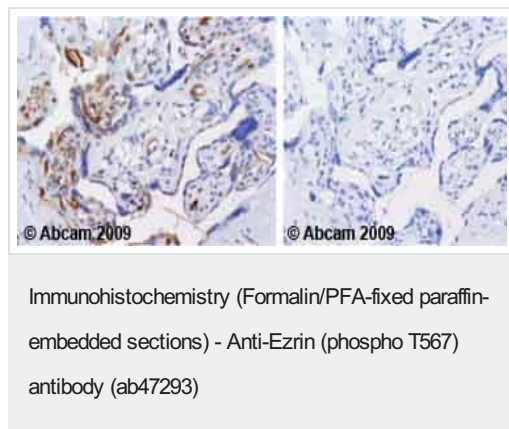
**All lanes :** Anti-Ezrin (phospho T567) antibody (ab47293)

**Lane 1 :** EGF treated A431 cells, no added peptide

**Lane 2 :** Untreated A431 cells, no added peptide

**Predicted band size:** 69 kDa

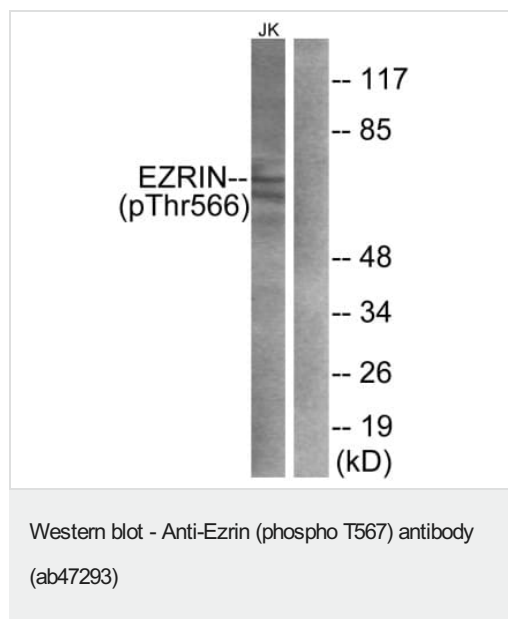
**Observed band size:** 69 kDa



Ab47293 staining human normal placenta. Staining is localised to apical membrane and cytoplasmic compartment.

Left panel: with primary antibody at 1 ug/ml. Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus , at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 AR buffers EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H<sub>2</sub>O<sub>2</sub> in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may b



**All lanes :** Anti-Ezrin (phospho T567) antibody (ab47293)

**Lane 1 :** Jurkat cell lysate with PMA (125 ng/ml, 30 minutes)

**Lane 2 :** Jurkat cell lysate

**Predicted band size:** 69 kDa

**Observed band size:** 69 kDa

**Additional bands at:** 68 kDa (possible cross reactivity)

The lower band is likely to be Moesin, which has a homologous immunogenic region.

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

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