

Datasheet for ABIN967775

**anti-EPS8 antibody (AA 628-821)**

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## Overview

Quantity:	150 µg
Target:	EPS8
Binding Specificity:	AA 628-821
Reactivity:	Human, Rat, Mouse, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This EPS8 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

## Product Details

Immunogen:	Mouse Eps8 aa. 628-821
Clone:	15-Eps8
Isotype:	IgG1
Cross-Reactivity:	Human, Rat (Rattus), Dog (Canine)
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li><li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li><li>4. Please refer to us for technical protocols.</li></ol>

## Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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## Target Details

Target:	EPS8
Alternative Name:	Eps8 ( <a href="#">EPS8 Products</a> )
Background:	<p>The p97 [Eps8] protein, a substrate for EGF-R tyrosine kinase, contains an SH3 domain, but lacks a functional SH2 domain. Antibodies to Eps8 recognize the 97 kDa protein and a less abundant 68 kDa protein. Both forms are tyrosine-phosphorylated following treatment of cells with EGF. It is likely that p68 [Eps8] is synthesized from an alternatively spliced mRNA since two major Eps8-specific mRNAs are detected by Northern analysis. Co-immunoprecipitation studies have demonstrated a physical association between the Eps8 protein and the EGF-R both in vivo and in vitro. For many EGF-R substrates, this interaction is mediated through an SH2 domain of the substrate. Since Eps8 lacks a well defined SH2 domain and a fusion protein containing the SH2-like region of Eps8 could not bind EGF-R, the mechanism of Eps8-EGF-R association remains unclear. Overexpression of Eps8 in fibroblasts and hematopoietic cells results in an increased mitogenic response to EGF, suggesting that Eps8 has a role in the modulation of EGF-R function.</p>
Molecular Weight:	97 kDa
Pathways:	<a href="#">EGFR Signaling Pathway</a> , <a href="#">Regulation of Actin Filament Polymerization</a>

## Application Details

Comment:	Related Products: ABIN967389, ABIN968550
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

## Handling

should be handled by trained staff only.

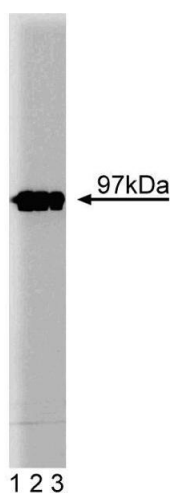
Storage: -20 °C

Storage Comment: Store undiluted at -20°C.

## Publications

- Product cited in:
- Burke, Schooler, Wiley: "Regulation of epidermal growth factor receptor signaling by endocytosis and intracellular trafficking." in: **Molecular biology of the cell**, Vol. 12, Issue 6, pp. 1897-910, (2001) ([PubMed](#)).
- Miyamoto, Teramoto, Gutkind, Yamada: "Integrins can collaborate with growth factors for phosphorylation of receptor tyrosine kinases and MAP kinase activation: roles of integrin aggregation and occupancy of receptors." in: **The Journal of cell biology**, Vol. 135, Issue 6 Pt 1, pp. 1633-42, (1997) ([PubMed](#)).
- Fazioli, Minichiello, Matoska, Castagnino, Miki, Wong, Di Fiore: "Eps8, a substrate for the epidermal growth factor receptor kinase, enhances EGF-dependent mitogenic signals." in: **The EMBO journal**, Vol. 12, Issue 10, pp. 3799-808, (1993) ([PubMed](#)).
- Xie, Cho, Calaycay, Mumford, Swiderek, Lee, Ding, Troso, Nathan: "Cloning and characterization of inducible nitric oxide synthase from mouse macrophages." in: **Science (New York, N.Y.)**, Vol. 256, Issue 5054, pp. 225-8, (1992) ([PubMed](#)).

## Images



### Western Blotting

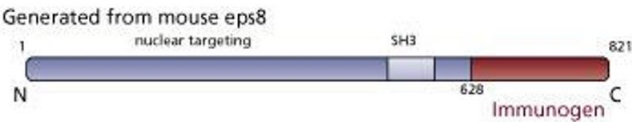
**Image 1.** Western blot analysis of Eps8 on a lysate from mouse macrophages (RAW 264.7) treated with 10 ng/mL IFN $\gamma$  and 1  $\mu$ g/mL LPS for 12 hours. Lane 1: 1:5000, lane 2: 1: 10,000, lane 3: 1:20,000 dilution of the mouse anti-Eps8 antibody.



Immunofluorescence

**Image 2.** Immunofluorescence staining of rabbit cerebellum.

**Image 3.**



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN967775.