

Datasheet for ABIN968187

## anti-EPS15 antibody (AA 694-888)



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### Overview

Quantity:	50 µg
Target:	EPS15
Binding Specificity:	AA 694-888
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This EPS15 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

### Product Details

Immunogen:	Human Eps15 aa. 694-888
Clone:	17-eps15
Isotype:	IgG2a
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
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. Please refer to us for technical protocols.</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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</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:	EPS15
Alternative Name:	Eps15 ( <a href="#">EPS15 Products</a> )
Background:	<p>The eps15 (EGF receptor pathway substrate clone number 15) gene was isolated using an expression cloning method designed for direct isolation of cDNAs encoding substrates of tyrosine kinases. The eps15 gene encodes a 145 kDa protein that is tyrosine phosphorylated following EGF receptor activation and this receptor directly phosphorylates purified Eps15 in vitro. Phosphorylation of Eps15 is much more efficient following EGF receptor activation versus erbB2 kinase activation, suggesting the protein is predominantly a part of an EGF receptor signaling pathway. Overexpression of Eps15 causes transformation of NIH 3T3 cells, implying Eps15 may be involved in the control of cell proliferation. Eps15 binds to the SH3 domain of Crk through its proline-rich domain at the C-terminal region. Adaptin alpha binds to the C-terminus of Eps15 at three different sites ranging from residues 650 to 730. Eps15, Adaptin alpha, and EGF receptor are co-localized at the clathrin-coated pits after receptor activation. Therefore, Eps15 may recruit EGF receptors to the clathrin-coated pits for internalization of the activated receptor. This antibody is routinely tested by western blot analysis.</p>
Molecular Weight:	145 kDa
Pathways:	<a href="#">EGFR Signaling Pathway</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">EGFR Downregulation</a>

## Application Details

Comment:	Related Products: ABIN968537, ABIN967389
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

## Handling

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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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Storage Comment:	Store undiluted at -20° C.
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## Publications

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Product cited in: Engqvist-Goldstein, Warren, Kessels, Keen, Heuser, Drubin: "The actin-binding protein Hip1R associates with clathrin during early stages of endocytosis and promotes clathrin assembly in vitro." in: **The Journal of cell biology**, Vol. 154, Issue 6, pp. 1209-23, (2001) ([PubMed](#)).

Kariya, Koyama, Nakashima, Oshiro, Morinaka, Kikuchi: "Regulation of complex formation of POB1/epsin/adaptor protein complex 2 by mitotic phosphorylation." in: **The Journal of biological chemistry**, Vol. 275, Issue 24, pp. 18399-406, (2000) ([PubMed](#)).

Traub, Downs, Westrich, Fremont: "Crystal structure of the alpha appendage of AP-2 reveals a recruitment platform for clathrin-coat assembly." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 96, Issue 16, pp. 8907-12, (1999) ([PubMed](#)).

Iannolo, Salcini, Gaidarov, Goodman, Baulida, Carpenter, Pelicci, Di Fiore, Keen: "Mapping of the molecular determinants involved in the interaction between eps15 and AP-2." in: **Cancer research**, Vol. 57, Issue 2, pp. 240-5, (1997) ([PubMed](#)).

Alvarez, Shon, Miloso, Beguinot: "Structural requirements of the epidermal growth factor receptor for tyrosine phosphorylation of eps8 and eps15, substrates lacking Src SH2 homology domains." in: **The Journal of biological chemistry**, Vol. 270, Issue 27, pp. 16271-6, (1995) ([PubMed](#)).



Western Blotting

**Image 1.** Western blot analysis of eps15 on a Jurkat lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the anti-eps15 antibody.