

Rabbit EPS15 Polyclonal Antibody | anti-EPS15 antibody

Phospho-EPS15(Tyr849) Antibody

CATALOG # AAA320742	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunocytochemistry, Immunofluorescence, Western Blot
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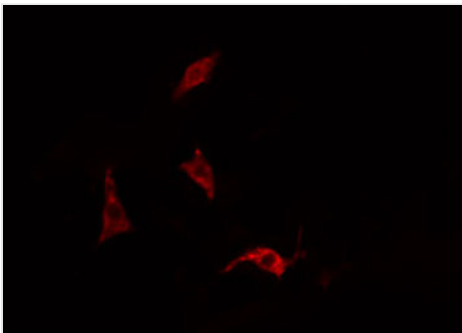
PRODUCT SYNONYMS

EPS15; Polyclonal Antibody; Phospho-EPS15(Tyr849) Antibody; AF 1P; AF 1p protein; AF1P; ALL1 fused gene from chromosome 1; Epidermal growth factor receptor pathway substrate 15; Epidermal growth factor receptor substrate 15; EPS 15; MLLT 5; MLLT5; Protein Eps 15; Protein Eps15; anti-EPS15 antibody

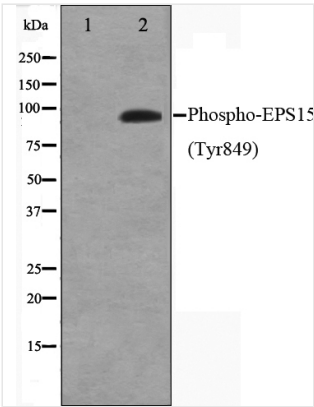
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-EPS15(Tyr849) antibody detects endogenous levels of EPS15 only when phosphorylated at Tyrosine 849
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	582
Applicable Applications for anti-EPS15 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EPS15 around the phosphorylation site of Tyrosine 849
Subcellular Location	Cytoplasm. Cell Membrane; Peripheral Membrane Protein; Cytoplasmic Side. Recruited to the plasma membrane upon EGFR activation and localizes to coated pits.
Tissue Specificity	Ubiquitously expressed.
Conjugation	Unconjugated
Epitope	Phospho Tyr849
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA320742 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis on HepG2 cell lysate using Phospho-EPS15(Tyr849) Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-EPS15 antibody	Description: This gene encodes a protein that is part of the EGFR pathway. The protein is present at clatherin-coated pits and is involved in receptor-mediated endocytosis of EGF. Notably, this gene is rearranged with the HRX/ALL/MLL gene in acute myelogeneous leukemias. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. Function: Involved in cell growth regulation. May be involved in the regulation of mitogenic signals and control of cell proliferation. Involved in the internalization of ligand-inducible receptors of the receptor tyrosine kinase (RTK) type, in particular EGFR. Plays a role in the assembly of clathrin-coated pits (CCPs). Acts as a clathrin adapter required for post-Golgi trafficking. Seems to be involved in CCPs maturation including invagination or budding. Involved in endocytosis of integrin beta-1 (ITGB1) and transferrin receptor (TFR); internalization of ITGB1 as DAB2-dependent cargo but not TFR seems to require association with DAB2. Subunit Structure: Interacts with SGIP1 (PubMed:26822536). Interacts with HGS; the interaction bridges the interaction of STAM or STAM2 with EPS15. Isoform 2 interacts with HGS and AP2A2. Part of a complex at least composed of EPS15, HGS, and either STAM or STAM2. Binds AP2A2. Interacts with AP2B1; clathrin competes with EPS15. Binds STON2 and EPN1. Interacts (via its SH3-binding sites) with CRK. Interacts with SH3BP4/TTP. Interacts with ERBB2. Interacts with FCHO1. Interacts with FCHO2. Interacts (via EH domains) with DAB2. Interacts (via UIM repeats) with CORO7 (when ubiquitinated at 'Lys-472'). Interacts (via UIM domains) with UBQLN1 (via ubiquitin-like domain) and can interact with both the ubiquitinated and the non-ubiquitinated forms of UBQLN1. Interacts with UBQLN2 (By similarity) (PubMed:10757979, PubMed:11062555, PubMed:12551915, PubMed:16159959, PubMed:16314522, PubMed:16325581, PubMed:16903783, PubMed:18199683, PubMed:18200045, PubMed:18362181, PubMed:20448150, PubMed:21762413, PubMed:22484487, PubMed:22648170, PubMed:24768539, PubMed:8662907, PubMed:9721102, PubMed:9723620). Interacts with vaccinia virus protein A36 (PubMed:27670116). Post-translational Modifications: Phosphorylation on Tyr-849 is involved in the internalization of EGFR. Not required for membrane translocation after EGF treatment or for targeting to coated pits, but essential for a subsequent step in EGFR endocytosis (By similarity). Phosphorylated on serine upon DNA damage, probably by ATM or ATR. Ubiquitinated. Similarity: The EH domain interacts with Asn-Pro-Phe (NPF) motifs of target proteins. The UIM (ubiquitin-interacting motif) repeats specifically bind 'Lys-33'-linked ubiquitin.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	229577185
NCBI GeneID	2060
NCBI Accession #	NP_001153441.1
NCBI GenBank Nucleotide #	NM_001159969.1
UniProt Accession #	P42566; Q5SRH4; B2R8J7; D3DPJ2

Molecular Weight	Observed: 98 kDa Predicted: 99 kDa
NCBI Official Full Name	epidermal growth factor receptor substrate 15 isoform B
NCBI Official Synonym Full Names	epidermal growth factor receptor pathway substrate 15
NCBI Official Symbol	EPS15
NCBI Official Synonym Symbols	AF1P; AF-1P; MLLT5
NCBI Protein Information	epidermal growth factor receptor substrate 15
UniProt Protein Name	Epidermal growth factor receptor substrate 15
UniProt Gene Name	EPS15
UniProt Synonym Gene Names	AF1P; Protein Eps15

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/eps15-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/320742>