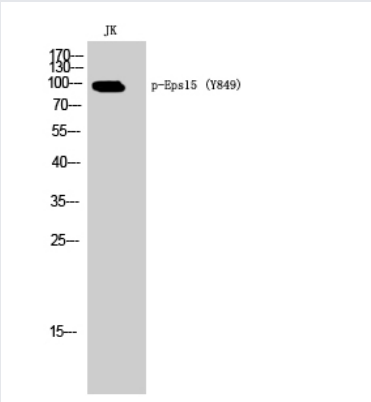
EPS15 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Eps15, Polyclonal Antibody
Full Product Name	Eps15 (Phospho-Tyr849) Rabbit Polyclonal Antibody
Product Gene Name	anti-EPS15 antibody
Product Synonym Names	EPS15; AF1P; Epidermal growth factor receptor substrate 15; Protein Eps15; Protein AF-1p; BH6842; Epidermal growth factor receptor substrate 15
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	Phospho-Eps15 (Y849) Polyclonal Antibody detects endogenous levels of Eps15 protein only when phosphorylated at Y849.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	98,656 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (51819935..51984995, complement). Location: 1p32
OMIM	600051
3D Structure	ModBase 3D Structure for P42566
Immunogen	Synthesized phospho-peptide around the phosphorylation site of human Eps15 (phospho Tyr849)
Modification	Phospho Specific
Applications Tested/Suitable for anti-EPS15 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-EPS15 antibody	WB: 1/500-1/2000 ELISA: 1/10000
Related Product Information for anti-EPS15 antibody	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. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, May 2009]
Other Notes	Small volumes of anti-EPS15 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EPS15 purchase	MBS9511884 is an antibody targeting EPS15. Also known as Eps15 (Phospho-Tyr849) Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-EPS15 antibody
Western Blot analysis of JK cells using Phospho-Eps15 (Y849) Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EPS15. It may not necessarily be applicable to this product.

NCBI GI #	229577185
NCBI GeneID	2060
NCBI Accession #	NP_001153441.1
UniProt Primary Accession #	P42566
UniProt Secondary Accession #	Q5SRH4; B2R8J7; D3DPJ2
UniProt Related Accession #	P42566
GenBank Nucleotide #	NM_001159969.1
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
UniProt Protein Name	Epidermal growth factor receptor substrate 15
UniProt Synonym Protein Names	Protein AF-1p
Protein Family	Epidermal growth factor receptor substrate
UniProt Gene Name	EPS15
UniProt Synonym Gene Names	AF1P; Protein Eps15
UniProt Entry Name	EPS15_HUMAN
NCBI Protein Information	epidermal growth factor receptor substrate 15; protein AF-1p; ALL1 fused gene from chromosome 1

UniProt Comments for EPS15	EPS15: 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. Interacts with SGIP1. 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 STAM1 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. Ubiquitously expressed. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold; Oncoprotein; Vesicle Chromosomal Location of Human Ortholog: 1p32 Cellular Component: intracellular membrane-bound organelle; membrane; early endosome membrane; cytoplasm; plasma membrane; AP-2 adaptor complex; coated pit; cytosol Molecular Function: identical protein binding; protein binding; calcium ion binding; polyubiquitin binding; SH3 domain binding Biological Process: negative regulation of epidermal growth factor receptor signaling pathway; epidermal growth factor receptor signaling pathway; clathrin cage assembly; cell proliferation; protein transport; vesicle organization and biogenesis; Golgi to endosome transport; endocytosis; endocytic recycling
Research Articles on EPS15	**1.** distinct forms of Eps15 direct EGFR to either the late endosome/lysosome for degradation (Eps15) or to the recycling endosome for transit back to the cell surface (Eps15S)
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