

**Eps15 (phospho Tyr849) Polyclonal Antibody**

<b>Catalog No :</b>	YP0469
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	Eps15
<b>Fields :</b>	>>Endocytosis
<b>Gene Name :</b>	EPS15
<b>Protein Name :</b>	Epidermal growth factor receptor substrate 15
<b>Human Gene Id :</b>	2060
<b>Human Swiss Prot No :</b>	P42566
<b>Mouse Gene Id :</b>	13858
<b>Mouse Swiss Prot No :</b>	P42567
<b>Immunogen :</b>	Synthesized phospho-peptide around the phosphorylation site of human Eps15 (phospho Tyr849)
<b>Specificity :</b>	Phospho-Eps15 (Y849) Polyclonal Antibody detects endogenous levels of Eps15 protein only when phosphorylated at Y849.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 100kD

**Cell Pathway :** Endocytosis;

**Background :** This gene encodes a protein that is part of the EGFR pathway. The protein is present at clathrin-coated pits and is involved in receptor-mediated endocytosis of EGF. Notably, this gene is rearranged with the HRX/ALL/MLL gene in acute myelogenous leukemias. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, May 2009],

**Function :** disease:A chromosomal aberration involving EPS15 is found in acute leukemias. Translocation t(1;11)(p32;q23) with MLL/HRX. The result is a rogue activator protein.,domain:The EH domain interacts with Asn-Pro-Phe (NPF) motifs of target proteins.,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.,PTM: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.,similarity:Contains 2 EF-hand dom

**Subcellular Location :** Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Membrane, clathrin-coated pit. Recruited to the plasma membrane upon EGFR activation and localizes to coated pits. Colocalizes with UBQLN1 in ubiquitin-rich cytoplasmic aggregates that are not endocytic compartments and in cytoplasmic juxtannuclear structures called aggresomes. .; [Isoform 2]: Early endosome membrane ; Peripheral membrane protein ; Cytoplasmic side . Colocalizes with HGS on bilayered clathrin coats on endosomes.

**Expression :** Ubiquitously expressed.

## Products Images

Western Blot analysis of JK cells using Phospho-Eps15 (Y849)  
Polyclonal Antibody

