

Eps15 (phospho Tyr849) Polyclonal Antibody

Catalog No: YP0469

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA

Target: Eps15

Fields: >>Endocytosis

Gene Name: EPS15

Protein Name: Epidermal growth factor receptor substrate 15

Human Gene Id: 2060

Human Swiss Prot

Iuman Swiss Froi

No:

Mouse Gene Id: 13858

Mouse Swiss Prot

No:

Immunogen: Synthesized phospho-peptide around the phosphorylation site of human Eps15

(phospho Tyr849)

P42566

P42567

Specificity: Phospho-Eps15 (Y849) Polyclonal Antibody detects endogenous levels of

Eps15 protein only when phosphorylated at Y849.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

1/3



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 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],

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 Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side.

Location: Membrane, clathrin-coated pit. Recruited to the plasma membrane upon EGFF

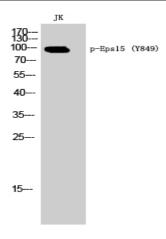
Membrane, clathrin-coated pit. Recruited to the plasma membrane upon EGFR activation and localizes to coated pits. Colocalizes with UBQLN1 in ubiquitin-rich cytoplasmic aggregates that are not endocytic compartments and in cytoplasmic

juxtanuclear 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