

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Eps15 in direct ELISAs and Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Eps15 Met492-Thr579 Accession # P42566
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

EPS15 (Epidermal growth factor receptor substrate 15) is a 138-140 kDa member of the EPS15 family of proteins. Eps15 has a tripartite structure comprising an amino terminal portion, which contains three evolutionary conserved EH protein-protein interaction domains, a central putative coiled-coil region required for constitutive oligomerization, and a carboxy terminal domain containing multiple copies of the amino acid triplet aspartate-proline-phenylalanine that constitute the AP2 binding domain. The carboxy terminal domain also contains two ubiquitin interaction motifs (UIMs), the last of which is indispensable for Eps15 binding to ubiquitin. Eps15 binds to AP-2 as well as other proteins involved in endocytosis and/or synaptic vesicle recycling, such as synaptojanin1 and epsin. Furthermore, Eps15 colocalizes with markers of the plasma membrane clathrin-coated pits and vesicles. The EPS15 gene yields two isoforms that are believed to reside in distinct subcellular locations and thus implicated in different facets of endosomal trafficking. Human EPS15 has been mapped to chromosome 1p31- p32, a region displaying several non-random chromosomal abnormalities, including deletions in neuroblastoma and translocation in acute lymphoblastic and myeloid leukemias. Over aa 492-579, human EPS15 shares 76% aa identity with mouse EPS15.

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