EPS15R, NT (Epidermal Growth Factor Receptor Substrate 15-like 1, Eps15-related Protein, EPS15L1) (APC)

Catalog number

E3376-05A-APC

Supplier

United States Biological

Ubiquitin is a 76aa highly conserved eukaryotic polypeptide that selectively marks cellular proteins for proteolytic degradation by the 26S proteasome. The process of target selection, covalent attachment and shuttle to the 26S proteasome is a vital means of regulating the concentrations of key regulatory proteins in the cell by limiting their lifespans. Polyubiquitination is a common feature of this modification. Serial steps for modification include the activation of ubiquitin, an ATP-dependent formation of a thioester bond between ubiquitin and the enzyme E1, transfer by transacylation of ubiquitin from E1 to the ubiquitin conjugating enzyme E2, and covalent linkage to the target protein directly by E2 or via E3 ligase enzyme. Deubiquitination enzymes also exist to reverse the marking of protein substrates. Posttranslational tagging by Ub is involved in a multitude of cellular processes, including the cell cycle, cell growth and differentiation, embryogenesis, apoptosis, signal transduction, DNA repair, regulation of transcription and DNA replication, transmembrane transport, stress responses, the immune response, and nervous system functions.

Applications

Suitable for use in FLISA and Western Blot. Other applications not tested.

Recommended Dilution

FLISA: 1:1,000
Western Blot: 1:100-1:500
Optimal dilutions to be determined by the researcher.

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Note

Applications are based on unconjugated antibody.

Immunogen

Synthetic peptide selected from the N-terminal region of human EPS15R (KLH).

Formulation

Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).

Purity

Purified by Protein G affinity chromatography.

Specificity

Recognizes human EPS15R.

Product Type

Pab

Source

human

Isotype

IgG

Grade

Affinity Purified

Applications

FL WB

Crossreactivity

Hu

Storage

4°C Do Not Freeze

MW

94.254

Detection Method

APC

Reference

1. J Biol Chem. 2002 Aug 23;277(34):30746-53. 2. J Biol Chem. 2002 Mar 15;277(11):8941-8. 3. J Biol Chem. 1998 Jan 30;273(5):3003-12. 4. Cancer Res. 1997 Dec 15;57(24):5498-504. 5. J Biol Chem. 1995 Jun 23;270(25):15341-7.