Human Eps15
Alexa Fluor® 405-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1261C
Catalog Number: IC8480V
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Eps15 in direct ELISAs and Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1261C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	*E.coli*-derived recombinant human Eps15 Ala448-Thr579 Accession # P42566
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and 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.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 cells	U-118-MG human glioblastoma/astrocytoma cell line was fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012)

PREPARATION AND STORAGE

Shipping	The product is shipped at ambient temperature. 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 Eps 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 oligmerization, and a carboxy terminal domain containing multiple copies of the amino acid triplet aspartate-prolinephenylalanine that constitute the AP2 binding domain. The carboxy terminal domain also contains two ubiquitin interaction motifs (UIMs), the last of which is indespensible 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.

PRODUCT SPECIFIC NOTICES

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449