

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CELSR3 in ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 763103
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human CELSR3 Val531-Ser711 Accession # Q9NYQ7
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. See Certificate of Analysis for details. *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
Flow Cytometry	0.25-1 µg/10 ⁶ cells	SH-SY5Y human neuroblastoma cell line and bEnd.3 mouse endothelioma cell line

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

CELSR3 (Cadherin EGF LAG Seven-pass G-type Receptor 3; also cadherin family member 11/CDHF11, FMI1 and EGFL1) is a 355 kDa (predicted) member of the LN-7TM subfamily, GPCR 2 family of proteins. It is coexpressed with Fzd3 on postmigratory neurons of the developing DRG and cranial ganglia, and appears to serve as an axonal guidance cue. Mature human CELSR3 is 3280 amino acids (aa) in length (aa 33-3312). It is a highly complex 7-transmembrane protein that contains a 2508 aa extended N-terminal extracellular region (aa 33-2540) plus a 538 aa C-terminal cytoplasmic domain. The N-terminal region contains nine consecutive cadherin domains (aa 326-1265), followed by a mixture of eight EGF-like and three laminin-like domains, and one membrane-proximal GPS domain. There are two potential isoform variants. One shows a five aa insertion after Gly2158, while another possesses an alternative start site at Met276. Over aa 531-711, human CELSR3 shares 98% aa sequence identity with mouse CELSR3.

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