

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CELSR3 in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) CELSR1 and rhCELSR2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CELSR3 Tyr531-Ser711 Accession # Q9NYQ7
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	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

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 97% aa sequence identity with mouse CELSR3.

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