

# Human/Mouse CELSR2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF6739

DESCRIPTION

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Species Reactivity	Human/Mouse Detects human CELSR2 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) CELSR1 and rhCELSR3 is observed.		
Specificity			
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	<i>E. coli-</i> derived recombinant human CELSR2 Cys51-Phe231 Accession # Q9HCU4		
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.		

### 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
Western Blot	1 µg/mL	See Below
Flow Cytometry	2.5 μg/10 <sup>6</sup> cells	See Below
Immunohistochemistry	5-15 μg/mL	See Below
CyTOF-ready	Ready to be labeled	d using established conjugation methods. No BSA or other carrier proteins that could interfere

with conjugation.

### DATA



Detection of CELSR2 by Western Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line either mock transfected or transfected with human CELSR2. PVDF Membrane was probed with 1 µg/mL of Goat Anti-Human CELSR2 Antigen Affnity-purified Polyclonal Antibody (Catalog # AF6739) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for CELSR2 at approximately 240 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.



Detection of CELSR2 in SH-SY5Y Human Cell Line by Flow Cytometry.

SH-SY5<sup>-Y</sup> human neuroblastoma cell line was stained with Goat Anti-Human CELSR2 Antigen Affinitypurified Polyclonal Antibody (Catalog # AF6739, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocypain-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108).



#### Detection of CELSR2 in bEnd.3 Mouse Cell Line by Flow

Cytometry. bEnd.3 mouse endothelioma cell line was stained with Goat Anti-Human CELSR2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6739, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108).



CELSR2 in Human Breast. CELSR2 was detected in immersion fixed paraffin-embedded sections of human breast using Goat Anti-Human CELSR2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6739) at 10 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining KI (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling when primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. Specific staining was localized to ductal epithelium. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

# PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>		

Rev. 2/6/2018 Page 1 of 2



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



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## BACKGROUND

CELSR2 (Cadherin EGF LAG seven-pass G-type receptor 2; also cadherin family member 10/CDHF10, Flamingo1 and EGFL2) is a 300-330 kDa member of the LN-7TM subfamily, GPCR 2 family of proteins. It is expressed on neurons, breast epithelium, Sertoli cells and germ cells, and through homophilic interactions, serves as either an adhesion or guidance molecule. Mature human CELSR2 is 2892 amino acids in length (aa 32-2923). It is a highly complex 7-transmembrane protein that contains a 2349 aa extended N-terminal extracellular region (aa 32-2380) plus a 310 aa C-terminal cytoplasmic domain. The N-terminal region contains nine consecutive cadherin domains (aa 182-1146) followed by a mixture of seven EGF-like and three laminin-like domains. There is a proteolytic cleavage site between Met2356-Thr2357 that generates a 250 kDa soluble fragment and a (mature) 60-65 kDa transmembrane segment that may reside on the cell membrane. Over aa 51-231, human CELSR2 shares 93% aa identity with mouse CELSR2.

Rev. 2/6/2018 Page 2 of 2



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