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CELSR2 (D2M9H) XP® Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Reactivity: Sensitivity: MW (kDa): Source/Isotype: **UniProt ID:** Entrez-Gene Id: WB, IHC-P Н Endogenous 320 Rabbit IgG #Q9HCU4 1952

Product Usage Application Dilution Information Western Blotting 1:1000 Immunohistochemistry (Paraffin) 1:200

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than **Storage**

0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #19983.

Specificity / Sensitivity

CELSR2 (D2M9H) XP® Rabbit mAb recognizes endogenous levels of total CELSR2 protein.

Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His1781 of human CELSR2 protein.

Background

CELSR2 (cadherin EGF LAG seven-pass G-type receptor, also known as flamingo homolog 3 or epidermal growth factor-like protein 2) is a member of the flamingo subfamily of non-classical cadherins, part of the cadherin superfamily. CELSR2 is a 7-transmembrane helix receptor that contains nine cadherin-like domains, seven EGF-like repeats, and 2 laminin A G-type repeats (1). It shares structural characteristics of both an adhesion molecule and a G protein-coupled receptor, suggesting putatives roles in both cell-cell adhesion and juxtacrine signaling. It's function has been associated with dendrite morphogenesis (2), neural plate anterior-posterior pattern formation (3), and regulation of transcription via the Wnt signaling pathway (4). In a loss-of-function mouse model, Celsr2 deletion resulted in defects in the planar organization of ependymal cilia, leading to defective cerebrospinal fluid dynamics and hydrocephalus (5). In humans, SNPs in the CELSR2 gene cluster on chromosome 1 have been associated with enhanced risk of coronary artery disease (6).

Background References

- 1. Vincent, J.B. et al. (2000) DNA Res 7, 233-5.
- 2. Shima, Y. et al. (2004) Dev Cell 7, 205-16.
- 3. Devenport, D. and Fuchs, E. (2008) Nat Cell Biol 10, 1257-68.
- 4. Qu, Y. et al. (2014) Proc Natl Acad Sci U S A 111, E2996-3004.
- 5. Tissir, F. et al. (2010) Nat Neurosci 13, 700-7.
- 6. Zhou, Y.J. et al. (2015) Int J Clin Exp Pathol 8, 9543-51.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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1/1/24, 9:12 AM **Limited Uses**

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