Revision 1

Store at -20C

#2483

DLL3 (G93) Antibody

Cell Signaling TECHNOLOGY®

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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:
W, IP	R	Transfected Only	65	Rabbit	#Q9NYJ7	10683

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

DLL3 (G93) Antibody detects transfected levels of DLL3. It does not recognize transfected levels of rat DLL1 and human DLL4.

Species predicted to react based on 100% sequence homology

Mouse

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a region surrounding residue Gly93 of mouse DLL3. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Notch signaling is activated upon engagement of the Notch receptor with its ligands, the DSL (Delta, Serrate, Lag2) proteins of single-pass type I membrane proteins. The DSL proteins contain multiple EGF-like repeats and a DSL domain that is required for binding to Notch (1,2). Five DSL proteins have been identified in mammals: Jagged1, Jagged2, Delta-like (DLL) 1, 3 and 4 (3). Ligand binding to the Notch receptor results in two sequential proteolytic cleavages of the receptor by the ADAM protease and the γ-secretase complex. The intracellular domain of Notch is released and then translocates to the nucleus where it activates transcription. Notch ligands may also be processed in a way similar to Notch, suggesting a bi-directional signaling through receptor-ligand interactions (4-6).
Mutations in DLL3 cause Spondylocostal dysostoses (SCD), a diverse group of disorders of axial skeletal malformation (7-10).

Background References

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3. Chiba, S. (2006) *Stem Cells* 24, 2437-2447.
4. Bland, C.E. et al. (2003) *J. Biol. Chem.* 278, 13607-13610.
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6. LaVoie, M.J. and Selkoe, D.J. (2003) *J. Biol. Chem.* 278, 34427-34437.
7. Whittock, N.V. et al. (2004) *Clin. Genet.* 66, 67-72.
8. Turnpenny, P.D. et al. (2003) *J. Med. Genet.* 40, 333-339.
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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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

R: Rat

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