

**DLL3 (E3J5R) Rabbit mAb**

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

<b>Applications:</b> W, IP, IHC-P	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 65	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9NYJ7	<b>Entrez-Gene Id:</b> 10683
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**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation  
Immunohistochemistry (Paraffin)

**Dilution**

1:1000  
1:50  
1:50 - 1:200

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 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 #88260.

**Specificity/Sensitivity**

DLL3 (E3J5R) Rabbit mAb recognizes endogenous levels of total DLL3 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro566 of human DLL3 protein.

**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**

1. Wilson, A. and Radtke, F. (2006) *FEBS Lett.* 580, 2860-2868.
2. Hansson, E.M. et al. (2004) *Semin. Cancer Biol.* 14, 320-328.
3. Chiba, S. (2006) *Stem Cells* 24, 2437-2447.
4. Bland, C.E. et al. (2003) *J. Biol. Chem.* 278, 13607-13610.
5. Six, E. et al. (2003) *Proc. Natl. Acad. Sci. USA* 100, 7638-7643.
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, 333-9.
9. Bulman, M.P. et al. (2000) *Nat Genet* 24, 438-41.
10. Bonafé, L. et al. (2003) *Clin Genet* 64, 28-35.

**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**

**W:** Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

**Cross-Reactivity Key**

**H:** Human

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