bs-6044R **[Primary Antibody]**

DLL4 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 54567 **SWISS:** Q9NR61

Target: DLL4

Immunogen: KLH conjugated synthetic peptide derived from human DLL4: 551-650/685.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The LIN-12/Notch family of transmembrane receptors is believed to play a central role in development by regulating cell fate decisions. Notch proteins have been found to be overexpressed or rearranged in human tumors. Ligands for Notch include Jagged, Jagged-2 and Delta. While blocking the differentiation of progenitor cells into the B-cell lineage, Delta promotes the emergence of a population of cells with T cell/NK-cell characteristics. The protein is a membrane protein expressed in heart, pancreas, brain and muscle during gastrulation and early organogenesis and in adult heart and lung. Delta-4 is a membrane protein that activates Notch-1 and Notch-4. It is expressed in a wide range of adult and fetal tissues, especially in vascular endothelium.

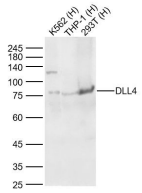
Applications: **WB** (1:500-2000)

Reactivity: Human, Rat (predicted: Mouse, Pig, Cow, Dog, Horse)

Predicted MW.: 72 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Human K562 cell Lysates Lane 2: Human THP-1 cell Lysates Lane 3: Human 293T cell Lysates Primary: Anti-DLL4 (bs-6044R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 75kDa Observed band size: 75kDa

SELECTED CITATIONS

- **[IF=12.6]** Wu Jie. et al. MIL-53(Fe)-Glucose self-assembled complex for enhanced angiogenesis and endothelial tip cell activation. J NANOBIOTECHNOL. 2025 Dec;23(1):1-22 IF,WB ;Human. 40537794
- **[IF=8.724]** Yong Tang. et al. Phosphorylation inhibition of protein-tyrosine phosphatase 1B tyrosine-152 induces bone regeneration coupled with angiogenesis for bone tissue engineering. Bioact Mater. 2021 Jul;6:2039 IF,IHC ;Mouse. 33511306
- **[IF=6.1]** Cao Le. et al. Adipose-derived stem cell exosomal miR-21-5p enhances angiogenesis in endothelial progenitor cells to promote bone repair via the NOTCH1/DLL4/VEGFA signaling pathway. J TRANSL MED. 2024 Dec;22(1):1-21 WB

;Rat. 39516839

- **[IF=6.1]** Yin Xuewei. et al. Therapeutic effect of miR-30b-5p-loaded lentivirus on experimental autoimmune uveitis via inhibiting Notch signaling activation. J TRANSL MED. 2025 Dec;23(1):1-22 WB ;Rat. 40211315
- **[IF=2.413]** Shouhui Wang. et al. The changes of bone vessels and their role in bone loss in tail-suspended rats. Acta Astronaut. 2021 Dec;189:368 IF ;rat. 10.1016/j.actaastro.2021.08.031