TECHNICAL DATA SHEET

CyFlow™ DLL4 Low Endotoxin
Anti-Hu; Clone MHD4-46

REF **BD560009**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	DLL4
Alternative Names	—
Clone	MHD4-46
Clonality	monoclonal
Format	Low Endotoxin
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Recombinant soluble human DLL4

Specificity

The mouse monoclonal antibody MHD4-46 recognizes the extracellular domain of DLL4 (δ-like ligand 4) antigen, a type I transmembrane protein which plays an important role in vascular development.

Contact Information:

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Functional assays

Storage Buffer

The reagent is provided in azide-free phosphate buffered saline (PBS) solution, pH ≈7.4; 0.2 µm filter sterilized. Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

DLL4 (δ-like ligand 4) is one of five ligands of Notch receptors. It interacts with Notch1 and Notch4. DLL4 is up-regulated at sites of physiologic and pathologic angiogenesis, whereas its expression is low in most adult normal tissues. It is also highly expressed in human clear-cell renal carcinomas, bladder cancers, and breast cancers. Blocking the DLL4-Notch interaction seems to be a promising therapeutic approach.

References

- Yamanda S, Ebihara S, Asada M, Okazaki T, Niu K, Ebihara T, Koyanagi A, Yamaguchi N, Yagita H, Arai H: Role of ephrinB2 in nonproductive angiogenesis induced by Delta-like 4 blockade. Blood. 2009 Apr 9; 113(15):3631-9. < PMID: 19218547 >
- Oishi H, Sunamura M, Egawa S, Motoi F, Unno M, Furukawa T, Habib NA, Yagita H: Blockade of delta-like ligand 4 signaling inhibits both growth and angiogenesis of pancreatic cancer. Pancreas. 2010 Aug; 39(6):897-903. < PMID: 20182391 >
- Sekine C, Koyanagi A, Koyama N, Hozumi K, Chiba S, Yagita H: Differential regulation of osteoclastogenesis by Notch2/Delta-like 1 and Notch1/Jagged1 axes. Arthritis Res Ther. 2012 Mar 5; 14(2):R45. < PMID: 22390640 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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