Product datasheet

Anti-VEGFR2/KDR Antibody

Catalog Number: *A00901-3*

BOSTER
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Basic Information

Product Name	Anti-VEGFR2/KDR Antibody
Gene Name	Kdr
Source	Rabbit
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	WB, IHC, IHC-F, ICC/IF, FCM, ELISA(Cap)
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E. coli-derived mouse VEGF Receptor 2 recombinant protein (Position: A20-L244).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	150KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunohistochemistry in frozen section: 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells ELISA(Cap): 1:50-1:200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

KDR (Kinase Insert Domain Receptor), also known as FLK1, VEGFR or VEGFR2, is a VEGF receptor. KDR is the human gene encoding it. Vascular endothelial growth factor (VEGF) is the only mitogen that specifically acts on endothelial cells. Its expression is upregulated by hypoxia, and its cell-surface receptor, known as fetal liver kinase-1 (Flk1) in mouse, is exclusively expressed in endothelial cells. Flk1 is the mouse homolog of KDR.

Reference

Anti-VEGFR2/KDR Antibody被引用在1文献中。

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Selected Validation Data

Figure 1. Western blot analysis of VEGF Receptor 2 using anti-VEGF Receptor 2 antibody (A00901-3). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: Recombinant mouse VEGFR2 Protein 1ng. anti-VEGF Receptor 2 antigen affinity purified polyclonal antibody (Catalog # A00901-3)probed with a goat anti-rabbit IgG-HRP secondary antibody The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) . A specific band was detected for VEGF Receptor 2 at approximately 166-200KD. The expected band size for VEGF Receptor 2 is at 153KD.

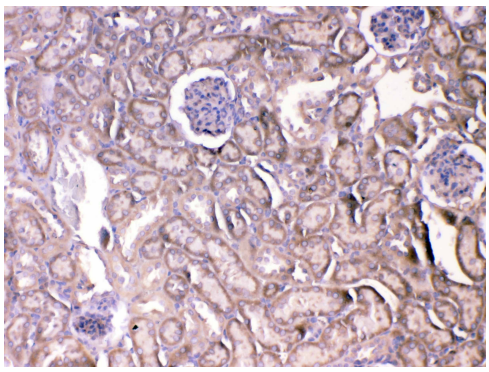

Figure 2. IHC analysis of VEGF Receptor 2 using anti-VEGF Receptor 2 antibody (A00901-3).VEGF Receptor 2 was detected in paraffin-embedded section of mouse kidney tissue. anti-VEGF Receptor 2 Antibody (A00901-3) . Biotinylated goat anti-rabbit IgG was used as secondary antibody . The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

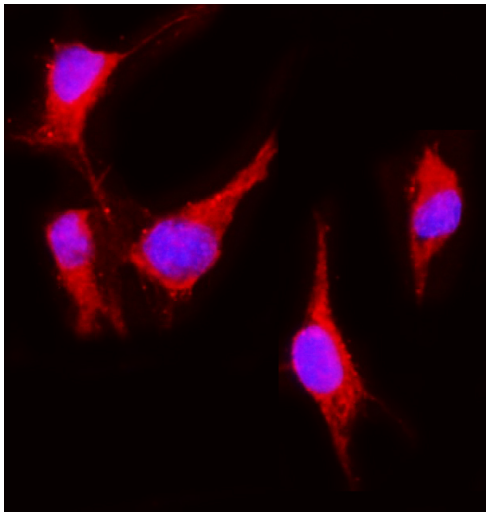

Figure 4. ICC analysis of anti- KDR antibody (A00901-3).was detected in immunocytochemical section of NIH/3T3 cells. Cells were stained using the Dylight594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog?#?BA1142) and counterstained with DAPI (blue)

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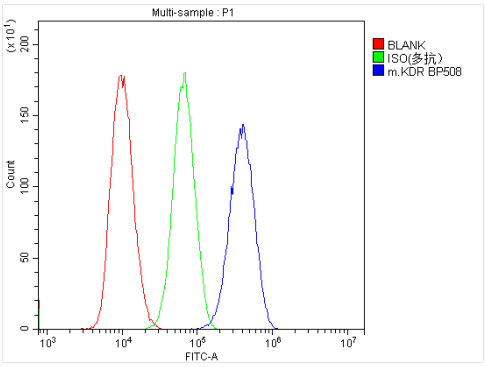

Figure 5. Flow cytometry analysis of LLC cell (1x106) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).