Product datasheet

Anti-VEGFR2/KDR Antibody

Catalog Number: *A00901-3*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Web: www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-VEGFR2/KDR Antibody
Gene Name	Kdr
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM, ELISA(Cap)
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml 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	180-250 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 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.

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

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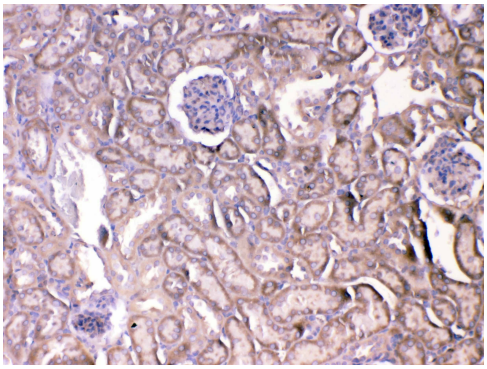
Anti-VEGFR2/KDR Antibody被引用在19文献中。

Selected Validation Data

Western blot analysis of VEGFR2/KDR using anti-VEGFR2/KDR antibody (A00901-3).
Lane 1: recombinant mouse VEGFR2 Protein 1ng.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-VEGFR2/KDR antigen affinity purified polyclonal antibody (A00901-3) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for VEGFR2/KDR at approximately 180-250 kDa.



IHC analysis of VEGFR2/KDR using anti-VEGFR2/KDR antibody (A00901-3).
VEGFR2/KDR was detected in a paraffin-embedded section of mouse kidney tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-VEGFR2/KDR Antibody (A00901-3) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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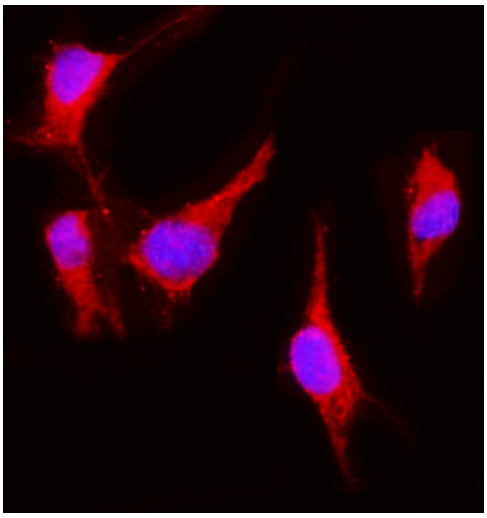
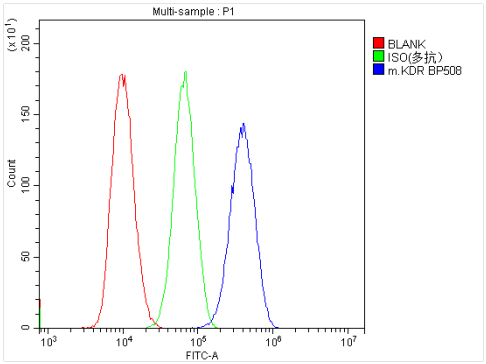


ICC/IF analysis of VEGFR2/KDR using anti-VEGFR2/KDR antibody (A00901-3).
VEGFR2/KDR was detected in an immunocytochemical section of NIH/3T3 cells. The section was incubated with rabbit anti-VEGFR2/KDR Antibody (A00901-3) at a dilution of 1:100. Fluoro594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1142) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of LLC cells using anti-VEGFR2/KDR antibody (A00901-3).
Overlay histogram showing LLC cells stained with A00901-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-VEGFR2/KDR Antibody (A00901-3) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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