Data Sheet (Cat.No.TMAC-02788)

Anti-NRP1 Antibody (4D9)

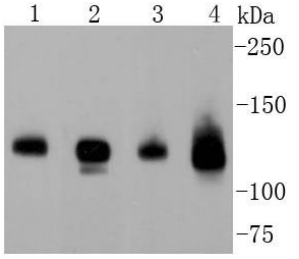
Product Details

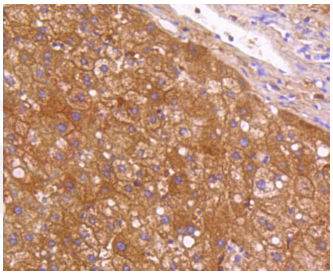
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 120 kDa.
Clone:	4D9
Purification:	ProA affinity purified

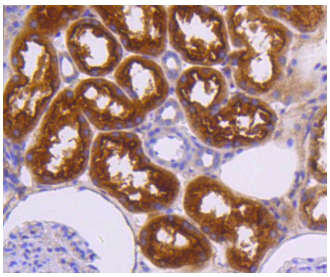
Applications

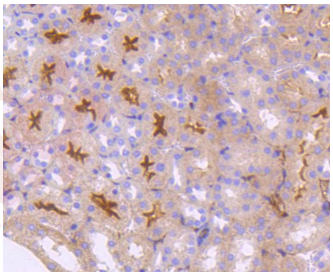
Verified Activity:

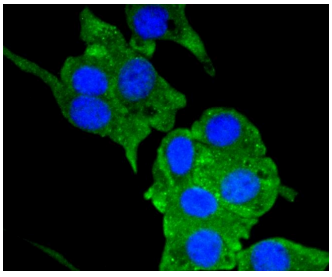
1. Western blot analysis of Neuropilin-1 on different lysates using anti-Neuropilin-1 antibody at 1/1,000 dilution. Positive control: Lane 1: Mouse heart, Lane 2: Mouse liver, Lane 3: Mouse kidney, Lane 4: Human liver.
2. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Neuropilin-1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Neuropilin-1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Neuropilin-1 antibody. Counter stained with hematoxylin.
5. ICC staining Neuropilin-1 in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining Neuropilin-1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining Neuropilin-1 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. Flow cytometric analysis of Hela cells with Neuropilin-1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

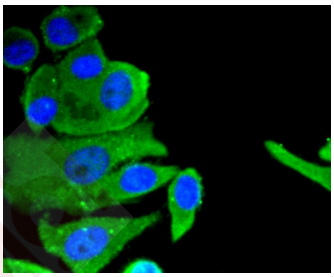


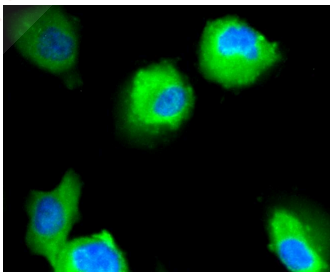


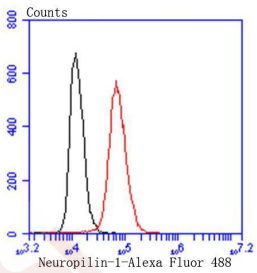












Application: FCM,ICC/IF,IHC,IP,WB

Recommended: WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: O14786

Synonyms: Neuropilin-1;NP1;VEGF165R;CD304;NRP;BDCA4;neuropilin 1

Research Background

Neuropilin is a type I transmembrane receptor that has been implicated in aspects of axon growth and guidance and has been shown to act as a high affinity receptor for class III semaphorins and vascular endothelial growth factor (VEGF). A closely related protein, neuropilin-2, shares a common domain structure and signifcant homology with neuropilin and also acts as a receptor for the class III semaphorins and VEGF. Both neuropilins are involved in regulating many physiological pathways including axonal guidance and angiogenesis, however they exhibit differential expression in the adult vasculature. Neuropilin-2 is polysialylated and expressed on the surface of dendritic cells. It is also expressed by venous and lymphatic endothelium. Neuropilin is expressed predominantly by arterial endothelium.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481