

Rabbit Neuropilin-1 Polyclonal Antibody | anti-NRP1 antibody

Anti-Neuropilin-1 Antibody, Rabbit Polyclonal

CATALOG # AAA27735	HOST Rabbit	REACTIVITY Mouse, Rat, Human	APPLICATIONS Immunohistochemistry
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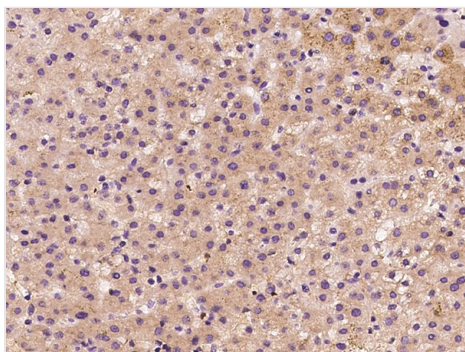
PRODUCT SYNONYMS

Neuropilin-1; Polyclonal Antibody; Anti-Neuropilin-1 Antibody; Rabbit Polyclonal; Neuropilin-1/NRP1 Antibody; Rabbit PAb; Antigen Affinity Purified; neuropilin 1; Anti-C530029I03 Antibody; Anti-NP-1 Antibody; Anti-NPN-1 Antibody; Anti-Npn1 Antibody; Anti-Nrp Antibody; anti-NRP1 antibody

PRODUCT SPECIFICATIONS

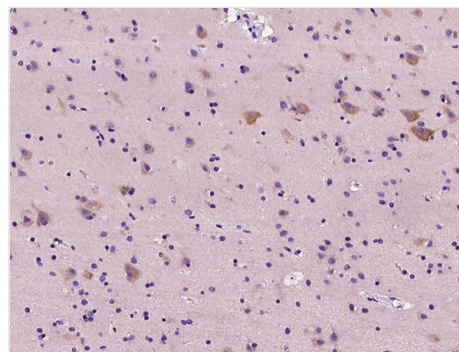
Host	Rabbit
Reactivity	Mouse, Rat, Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Neuropilin-1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-NRP1 antibody	IHC (Immunohistochemistry)
Application Notes	IHC-P: 1:200-1:1000
Immunogen	A synthetic peptide corresponding to the center region of the Mouse Neuropilin-1/NRP1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Mouse Neuropilin-1/NRP1, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



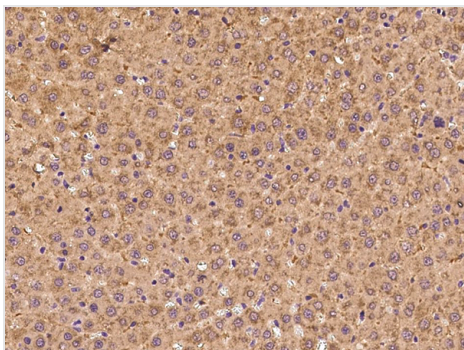
IHC (Immunohistochemistry)

Immunohistochemical staining NRP1 in human liver with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



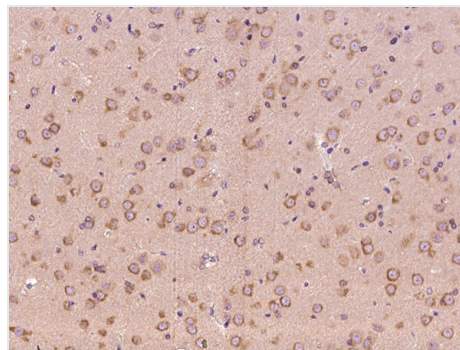
IHC (Immunohistochemistry)

Immunohistochemical staining NRP1 in human brain with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



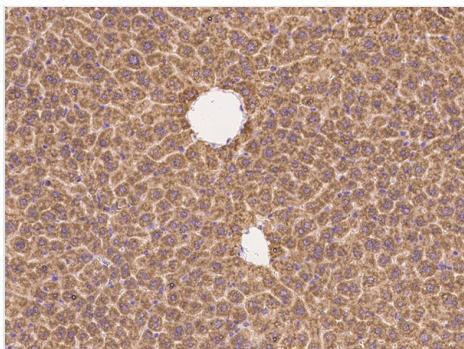
IHC (Immunohistochemistry)

Immunochemical staining NRP1 in rat liver with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



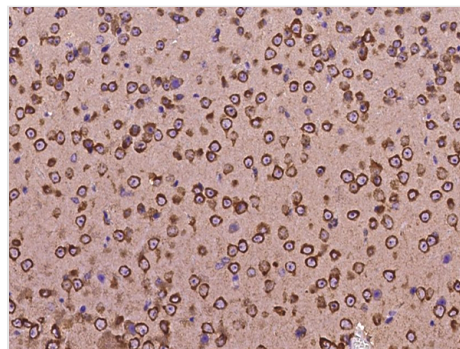
IHC (Immunohistochemistry)

Immunochemical staining NRP1 in rat brain with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining NRP1 in mouse liver with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining NRP1 in mouse brain with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-NRP1 antibody

Neuropilin is a type I transmembrane protein and the molecular mass is 120 kDa. Two homologs, Neuropilin-1 and Neuropilin-2, are identified. The primary structure of Neuropilin-1 and Neuropilin-2 is well conserved and is divided into four domains, CUB (a1/a2) domain, FV/FVIII (b1/b2) domain, MAM (c) domain, and (d) domain that contains a transmembrane and a short cytoplasmic region. Neuropilin-1 (NRP1) acts as a receptor for two different extracellular ligands, class 3 semaphorins, and specific isoforms of vascular endothelial growth factor. The functions of NRP1 and NRP2 have been extensively studied in neurons where they act in axon guidance and in endothelial cells where they promote angiogenesis and cell migration. Neuropilin-1 is likely to mediate contacts between the dendritic cells and the T lymphocytes via homotypic interactions and is essential for the initiation of the primary immune response. NRP1 is a co-receptor for VEGF receptor-2 (VEGFR2) that enhances the binding of VEGF165 to VEGFR2 and VEGF165-mediated chemotaxis. NRP1 expression is regulated in EC by tumor necrosis factor-alpha, the transcription factors dHAND and Ets-1, and vascular injury. NRP1 upregulation is positively correlated with the progression of various tumors. Overexpression of NRP1 in rat tumor cells results in enlarged tumors and substantially enhanced tumor angiogenesis. On the other hand, soluble NRP1 (sNRP1) is an antagonist of tumor angiogenesis.

References

Nakamura F, et al. (2002) Structural and functional relation of neuropilins. Adv Exp Med Biol. 515: 55-69. Romeo PH, et al. (2002) Neuropilin-1 in the immune system. Adv Exp Med Biol. 515: 49-54. Klagsbrun M, et al. (2002) The role of neuropilin in vascular and tumor biology. Adv Exp Med Biol. 515: 33-48. Staton CA, et al. (2007) Neuropilins in physiological and pathological angiogenesis. J Pathol. 212(3): 237-48. Bagri A, et al. (2009) Neuropilins in tumor biology. Clin Cancer Res. 15(6): 1860-4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	244792700
NCBI GeneID	18186
NCBI Accession #	NP_032763.2

NCBI GenBank Nucleotide #	NM_008737.2
UniProt Accession #	P97333 ; Q6PAR3
Molecular Weight	103,000 Da
NCBI Official Full Name	neuropilin-1
NCBI Official Synonym Full Names	neuropilin 1
NCBI Official Symbol	Nrp1
NCBI Official Synonym Symbols	Nrp; NP-1; Npn1; NPN-1; C530029I03
NCBI Protein Information	neuropilin-1
UniProt Protein Name	Neuropilin-1
UniProt Gene Name	Nrp1
UniProt Synonym Gene Names	Nrp

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/neuropilin-1-antibody-immunohistochemistry-elisa/27735>