

Human NRP1 Antibody Pair Set

Catalog No. E-KAB-0230

Applications

ELISA

Synonyms NRP1

Kit components & Storage

Title	Specifications	Storage
Human NRP1 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human NRP1 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

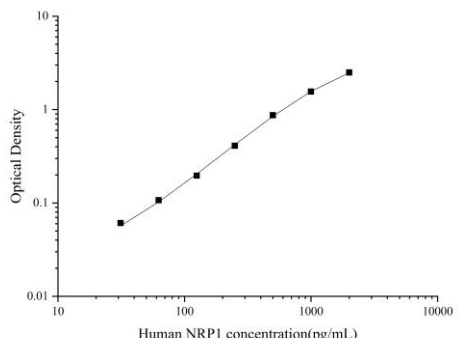
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0230)	
		Human NRP1 Capture Antibody	Human NRP1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human NRP1 protein	Recombinant Human NRP1 protein
	Swissprot	O14786	
Product details	Reactivity	Human	Human
	Host	Rabbit	Rabbit
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A & Antigen Affinity	Protein A & Antigen Affinity
	Specificity	Detects Human NRP1 in ELISAs.	

Applications

Human NRP1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4µg/mL	Human NRP1 Capture Antibody	 <p>The graph is a log-log plot. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The x-axis is labeled 'Human NRP1 concentration(pg/mL)' and ranges from 10 to 10000. Six data points are plotted, showing a clear upward trend. The points are approximately at (30, 0.06), (50, 0.1), (100, 0.2), (200, 0.4), (500, 0.8), and (1000, 1.5).</p>
ELISA Detection	1:1000-1:10000	Human NRP1 Detection Antibody (Biotin)	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

Neuropilin-1 (NRP1) is a transmembrane glycoprotein expressed by endothelial, dendritic, and regulatory T cells, as well as several other normal cell types and malignant tumor cells. NRP1 was first identified as a semaphorin (SEMA) receptor, involved in axonal guidance in embryonic development. NRP1 was also shown to act as a receptor for vascular endothelial growth factor (VEGF) and a promoter of angiogenesis through its interaction with VEGF-A165 (and other VEGFs) and the receptor tyrosine kinase (RTK) VEGF-R2. NRP1 plays versatile roles in angiogenesis, axon guidance, cell survival, migration, and invasion.