10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-NPC2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2106

Product Information

Application	WB, FC, ICC
Primary Accession	P61916
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB13695
Calculated MW	16570
Gene Name	NPC2
Aliases	NPC2; NPC Intracellular Cholesterol Transporter 2; HE1; EDDM1; Niemann-Pick Disease Type C2 Protein; Human Epididymis-Specific Protein 1; Epididymal Protein 1; NP-C2; Epididymis Secretory Sperm Binding Protein; Tissue-Specific Secretory Protein; Epididymal Secretory Protein E1; Niemann-Pick Disease, Type C2; He1
Immunogen	Recombinant protein of human Niemann Pick C2

Additional Information

Gene ID	10577
Other Names	NPC intracellular cholesterol transporter 2 {ECO:0000312|HGNC:HGNC:14537}, Epididymal secretory protein E1, Human epididymis-specific protein 1, He1, Niemann-Pick disease type C2 protein, NPC2 (HGNC:14537), HE1

Protein Information

Name	NPC2 (HGNC:14537)
Synonyms	HE1
Function	Intracellular cholesterol transporter which acts in concert with NPC1 and plays an important role in the egress of cholesterol from the lysosomal compartment (PubMed:11125141, PubMed:15937921, PubMed:17018531, PubMed:18772377, PubMed:29580834). Unesterified cholesterol that has been released from LDLs in the lumen of the late endosomes/lysosomes is transferred by NPC2 to the cholesterol-binding pocket in the N-terminal domain of NPC1 (PubMed:17018531, PubMed:18772377, PubMed:27238017). May bind and mobilize cholesterol that is associated with membranes (PubMed:18823126). NPC2 binds cholesterol with a 1:1 stoichiometry (PubMed:17018531). Can bind a variety of sterols, including lathosterol, desmosterol and the plant sterols stigmasterol and beta-sitosterol (PubMed:17018531). The secreted form of NCP2 regulates biliary cholesterol

	secretion via stimulation of ABCG5/ABCG8-mediated cholesterol transport (By similarity).
Cellular Location	Secreted. Endoplasmic reticulum. Lysosome Note=Interaction with cell-surface M6PR mediates endocytosis and targeting to lysosomes.
Tissue Location	Detected in gallbladder bile (PubMed:21315718). Detected in fibroblasts, kidney, liver, spleen, small intestine, placenta and testis (at protein level) (PubMed:11125141). Epididymis