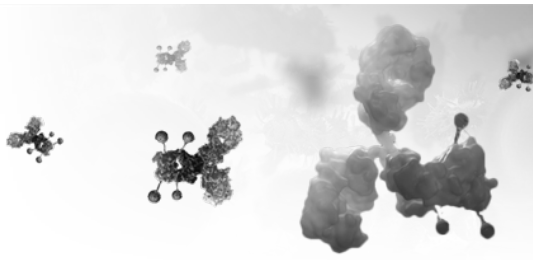

Anti-NAGPA (aa 309-408) polyclonal antibody (DPAB-DC2132)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Hydrolases are transported to lysosomes after binding to mannose 6-phosphate receptors in the trans-Golgi network. This gene encodes the enzyme that catalyzes the second step in the formation of the mannose 6-phosphate recognition marker on lysosomal hydrolases. Commonly known as uncovering enzyme or UCE, this enzyme removes N-acetyl-D-glucosamine (GlcNAc) residues from GlcNAc-alpha-P-mannose moieties and thereby produces the recognition marker. This reaction most likely occurs in the trans-Golgi network. This enzyme functions as a homotetramer of two disulfide-linked homodimers. In addition to having an N-terminal signal peptide, the proteins C-terminus contains multiple signals for trafficking it between lysosomes, the plasma membrane, and trans-Golgi network.
Immunogen	NAGPA (NP_057340, 309 a.a. ~ 408 a.a) partial recombinant protein with GST tag. The sequence is DNMWRCPRQVSTVVCVHEPRCQPPDCHGHGTCVDGHCQCTGHFWRGPGCDELDCGPSNCS QHGLCTETGCRCDAGWTGSNCSEECPLGWHGPGCQRPCKC
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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GENE INFORMATION

Gene Name	NAGPA N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase [Homo sapiens (human)]
Official Symbol	NAGPA
Synonyms	NAGPA; N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase; UCE; APAA; phosphodiester alpha-GlcNAcase; mannose 6-phosphate-uncovering enzyme; lysosomal alpha-N-acetylglucosaminidase; alpha-N-acetylglucosaminyl phosphodiesterase;
Entrez Gene ID	51172
Protein Refseq	NP_057340
UniProt ID	Q9UK23
Chromosome Location	16p13.3
Pathway	Lysosome;
Function	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase activity;

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