



Anti-NEU1 monoclonal antibody, clone 4G0 (DCABH-12549)

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

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is a lysosomal enzyme that cleaves terminal sialic acid residues from substrates such as glycoproteins and glycolipids. In the lysosome, this enzyme is part of a heterotrimeric complex together with beta-galactosidase and cathepsin A (the latter is also referred to as protective protein). Mutations in this gene can lead to sialidosis, a lysosomal storage disease that can be type 1 (cherry red spot-myoclonus syndrome or normosomatic type), which is late-onset, or type 2 (the dysmorphic type), which occurs at an earlier age with increased severity.
Immunogen	NEU1 (NP_000425, 334 a.a. ~ 415 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat
Clone	4G0
Conjugate	Unconjugated
Applications	Western Blot (Cell lysate); Western Blot (Recombinant protein); Sandwich ELISA (Recombinant protein); ELISA
Sequence Similarities	NPAHPEFRVNLTLRWSFSNGT SWRK ETVQLWPGPSGYSSLATLEGSMDGEEQAPQLYVLY EKGRNHYTE SISVAKISV YGT L
Size	100 µg
Buffer	In 1x PBS, pH 7.4

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	NEU1 sialidase 1 (lysosomal sialidase) [Homo sapiens]
Official Symbol	NEU1
Synonyms	NEU1; sialidase 1 (lysosomal sialidase); NEU; sialidase-1; G9 sialidase; exo-alpha-sialidase; lysosomal sialidase; acetylneuraminyl hydrolase; N-acetyl-alpha-neuraminidase 1; NANH; SIAL1; FLJ93471;
Entrez Gene ID	4758
Protein Refseq	NP_000425
UniProt ID	Q5JQI0
Chromosome Location	6p21
Pathway	Glycosphingolipid metabolism, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Other glycan degradation, organism-specific biosystem; Other glycan degradation, conserved biosystem;
Function	exo-alpha-(2-> 3)-sialidase activity; exo-alpha-(2-> 6)-sialidase activity; exo-alpha-(2-> 8)-sialidase activity; exo-alpha-sialidase activity; hydrolase activity, acting on glycosyl bonds;