



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

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
<b>Immunogen</b>	NEU1 (NP_000425, 334 a.a. ~ 415 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Clone</b>	4G0
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Western Blot (Cell lysate); Western Blot (Recombinant protein); Sandwich ELISA (Recombinant protein); ELISA
<b>Sequence Similarities</b>	NPAHPEFRVNLTLRWSFSNGTSWRKETVQLWPGPSGYSSLATLEGSMGDGEEQAPQLYVLY EKGRNHYTEISVAKISVYGTL
<b>Size</b>	100 µg
<b>Buffer</b>	In 1x PBS, pH 7.4

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

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">NEU1 sialidase 1 (lysosomal sialidase) [ Homo sapiens ]</a>
<b>Official Symbol</b>	NEU1
<b>Synonyms</b>	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;
<b>Entrez Gene ID</b>	<a href="#">4758</a>
<b>Protein Refseq</b>	<a href="#">NP_000425</a>
<b>UniProt ID</b>	<a href="#">Q5JQI0</a>
<b>Chromosome Location</b>	6p21
<b>Pathway</b>	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;
<b>Function</b>	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;