



## Anti-NEU1 (aa 334-415) polyclonal antibody (DPAB-DC2015)

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

### PRODUCT INFORMATION

|                            |   |
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| <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. The sequence is<br><br>NPAHPEFRVNLTLRWSFSNGTSWRKETVQLWPGPSGYSSLATLEGSMMDGEEQAPQLYVLY<br>EKGRNHYTESISVAKISVYGTI   |
| <b>Source/Host</b>         | Mouse   |
| <b>Species Reactivity</b>  | Human   |
| <b>Conjugate</b>           | Unconjugated  |
| <b>Applications</b>        | WB (Tissue lysate), WB (Recombinant protein), ELISA,  |
| <b>Size</b>                | 50 µl   |
| <b>Buffer</b>              | 50 % glycerol   |
| <b>Preservative</b>        | None  |
| <b>Storage</b>             | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.  |

### GENE INFORMATION

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| <b>Gene Name</b>           | <a href="#">NEU1 sialidase 1 (lysosomal sialidase) [ Homo sapiens (human) ]</a>   |
| <b>Official Symbol</b>     | NEU1  |
| <b>Synonyms</b>            | NEU1; sialidase 1 (lysosomal sialidase); NEU; NANH; SIAL1; sialidase-1; G9 sialidase; exo-alpha-sialidase; lysosomal sialidase; acetylneuramyl hydrolase; N-acetyl-alpha-neuraminidase 1; |
| <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> | 6p21.3  |
| <b>Pathway</b>             | Asparagine N-linked glycosylation; Glycosphingolipid metabolism; Lysosome; Metabolism of lipids and lipoproteins  |
| <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   |

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