

Product datasheet for **TA342056**

SIGLECL1 (SIGLEC12) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-SIGLEC12 antibody: synthetic peptide directed towards the N terminal of human SIGLEC12. Synthetic peptide located within the following region: GRFLLLGDPQTNNCSLSIRDARKGDSGKYYFQVERGSRKWNYYDKLSVH
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	63 kDa
Gene Name:	sialic acid binding Ig like lectin 12 (gene/pseudogene)
Database Link:	NP_443729 Entrez Gene 89858 Human Q96PQ1



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Background:

Sialic acid-binding immunoglobulin-like lectins (SIGLECs) are a family of cell surface proteins belonging to the immunoglobulin superfamily. They mediate protein-carbohydrate interactions by selectively binding to different sialic acid moieties present on glycolipids and glycoproteins. SIGLEC12 is a member of the SIGLEC3-like subfamily of SIGLECs. SIGLEC12, upon tyrosine phosphorylation, has been shown to recruit the Src homology 2 domain-containing protein-tyrosine phosphatases SHP1 and SHP2. It has been suggested that the protein is involved in the negative regulation of macrophage signaling by functioning as an inhibitory receptor. Western blots using four different antibodies against four unique regions of this protein target confirm the same apparent molecular weight in our tests.

Sialic acid-binding immunoglobulin-like lectins (SIGLECs) are a family of cell surface proteins belonging to the immunoglobulin superfamily. They mediate protein-carbohydrate interactions by selectively binding to different sialic acid moieties present on glycolipids and glycoproteins. This gene encodes a member of the SIGLEC3-like subfamily of SIGLECs. Members of this subfamily are characterized by an extracellular V-set immunoglobulin-like domain followed by two C2-set immunoglobulin-like domains, and the cytoplasmic tyrosine-based motifs ITIM and SLAM-like. The encoded protein, upon tyrosine phosphorylation, has been shown to recruit the Src homology 2 domain-containing protein-tyrosine phosphatases SHP1 and SHP2. It has been suggested that the protein is involved in the negative regulation of macrophage signaling by functioning as an inhibitory receptor. This gene is located in a cluster with other SIGLEC3-like genes on 19q13.4. Alternatively spliced transcript variants encoding distinct isoforms have been described for this gene.

Synonyms:

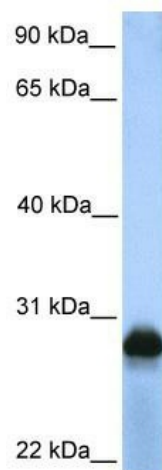
S2V; Siglec-XII; SIGLECL1; SLG

Note:

Immunogen Sequence Homology: Human: 100%; Pig: 86%; Horse: 83%; Zebrafish: 82%; Rat: 77%; Bovine: 77%

Protein Families:

Druggable Genome, Stem cell - Pluripotency, Transmembrane

Product images:

WB Suggested Anti-SIGLEC12 Antibody Titration: 0.2-1 ug/ml; Positive Control: HepG2 cell lysate