



# Anti-SIGLEC1 monoclonal antibody, clone 3D6.112 [FITC] (CABT-47186RM)

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

## PRODUCT INFORMATION

### Product Overview

Rat anti Mouse CD169 antibody, clone 3D6.112 recognizes mouse CD169 also known as sialoadhesin, Sheep erythrocyte receptor or Siglec-1. CD169 is a 1695 amino acid, ~180kDa single pass, type 1 transmembrane glycoprotein containing a single Ig-like V-type domain and sixteen Ig-like C2-type domains. CD169 is a macrophage restricted receptor, preferentially binding to alpha 2,3 linked sialic acid residues and is expressed on stromal macrophages in many tissues, particularly in lymph nodes, bone marrow and on marginal metallophilic macrophages in the spleen. CD169 has been implicated in a number of roles including cell-cell interactions with lymphocytes and granulocytes. CD169 expressing macrophages have also been suggested to play a role in host resistance to lymphoma metastasis. In pigs CD169 has also been identified as a macrophage restricted receptor for porcine reproductive and respiratory syndrome virus. CD169 expressing macrophages have also been implicated in the regulation of autoimmune disease progression through their interaction with regulatory T cells via CD169. CD169 has also been shown to play a critical role in the recognition and elimination of invasive sialylated microorganisms including *Campylobacter jejuni* and group B *Streptococcus*. The functional activity of rat anti mouse CD169 antibody, clone 3D6.112, its ability to inhibit binding of red blood cells to CD169 can be considerably enhanced by derivitization of the antibody with polyethylene glycol. Flow Cytometry The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.

Specificity	SIGLEC1
Immunogen	Purified murine sialoadhesin.
Isotype	IgG2a
Source/Host	Rat
Species Reactivity	Mouse
Clone	3D6.112

<b>Conjugate</b>	FITC
<b>Applications</b>	FC
<b>Format</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
<b>Size</b>	100 µg
<b>Preservative</b>	See individual product datasheet
<b>Storage</b>	in frost free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Siglec1 sialic acid binding Ig-like lectin 1, sialoadhesin [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	SIGLEC1
<b>Synonyms</b>	SIGLEC1; sialic acid binding Ig-like lectin 1, sialoadhesin; Sn; Cd169; Siglec-1; sialoadhesin; SER; sheep erythrocyte receptor; sialic acid-binding Ig-like lectin 1;
<b>Entrez Gene ID</b>	<a href="#">20612</a>
<b>Protein Refseq</b>	<a href="#">NP_035556</a>
<b>UniProt ID</b>	Q62230
<b>Chromosome Location</b>	2 F-H1; 2 63.26 cM
<b>Pathway</b>	Cell adhesion molecules (CAMs);
<b>Function</b>	carbohydrate binding; protein binding;