



Anti-LAG3 monoclonal antibody, clone 444324 (DCABY-4076)

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

PRODUCT INFORMATION

Antigen Description	LAG-3 (Lymphocyte activation gene-3), also known as CD223, is a member of the immunoglobulin superfamily (IgSF). The mature LAG-3 protein is a 496 amino acid (aa) membrane protein with a 421 aa extracellular region that contains four IgSF domains, a 21 aa transmembrane region and a 54 aa cytoplasmic region. LAG-3 and CD4 molecules share < 20% aa sequence homology but have a similar structure. Both molecules bind to MHC class II. LAG-3 binds to MHC class II with higher affinity than CD4. Both LAG-3 and CD4 genes are located on the distal part of the short arm of chromosome 12.
Specificity	Detects human LAG-3 in ELISAs. In sandwich immunoassays, no cross-reactivity with recombinant mouse LAG-3 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human LAG-3. Leu23-Leu450 Accession Number P18627
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	444324
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated
Applications	ELISA Capture (Matched Pair)
Format	Liquid
Size	500 µg

Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	LAG3 lymphocyte-activation gene 3 [Homo sapiens (human)]
Official Symbol	LAG3
Synonyms	LAG3; lymphocyte-activation gene 3; CD223; lymphocyte activation gene 3 protein;
Entrez Gene ID	3902
Protein Refseq	NP_002277
UniProt ID	P18627
Chromosome Location	12p13.32
Function	MHC class II protein binding; antigen binding; transmembrane signaling receptor activity;