

ARG23064 anti-CD43 antibody [W3/13]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [W3/13] recognizes CD43 Mouse anti Rat CD43 antibody, clone W3/13 recognizes the rat CD43 cell surface antigen, also known as leukosialin, sialophorin or W3/13 antigen. CD43 is a 371 amino acid ~95 kDa heavily glycosylated single pass type 1 transmembrane glycoprotein (Killeen et al. 1987) expressed by all leucocytes with the exception of B lymphocytes. CD43, in mice acts as a T-cell counter-receptor for CD169 (Siglec-1) suggesting a role in cell-cell interactions (van den Berg et al. 2001) Mouse anti Rat CD43 antibody, clone W3/13 is routinely tested in flow cytometry on rat splenocytes.
Tested Reactivity	Rat
Tested Application	FACS, IHC-Fr, IHC-P
Host	Mouse
Clonality	Monoclonal
Clone	W3/13
Isotype	IgG1
Target Name	CD43
Species	Rat
Immunogen	Rat thymocyte membrane glycoproteins.
Conjugation	Un-conjugated
Alternate Names	LSN; CD43; GALGP; GPL115

Application Instructions

Application table	Application	Dilution
	FACS	1:50 - 1:100
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
Application Note	IHC-P: This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. FACS: Use 10 µl of the suggested working dilution to label 10 ⁶ cells in 100 µl. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

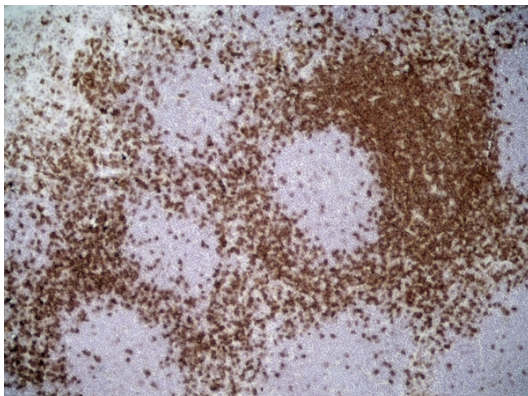
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% Sodium azide
Preservative	0.09% Sodium azide

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

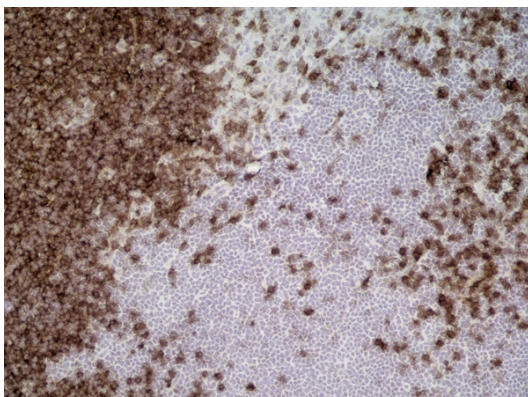
Gene Symbol	Spn
Gene Full Name	sialophorin
Background	The protein encoded by this gene is a major sialoglycoprotein found on the surface of thymocytes, T lymphocytes, monocytes, granulocytes, and some B lymphocytes. It may be part of a physiologic ligand-receptor complex involved in T-cell activation. During T-cell activation, this protein is actively removed from the T-cell-APC (antigen-presenting cell) contact site, suggesting a negative regulatory role in adaptive immune response. [provided by RefSeq, Sep 2011]
Function	One of the major glycoproteins of thymocytes and T lymphocytes. Plays a role in the physicochemical properties of the T-cell surface and in lectin binding. Presents carbohydrate ligands to selectins. Has an extended rodlike structure that could protrude above the glycocalyx of the cell and allow multiple glycan chains to be accessible for binding. Is a counter-receptor for SN/Siglec-1 (By similarity). During T-cell activation is actively removed from the T-cell-APC (antigen-presenting cell) contact site thus suggesting a negative regulatory role in adaptive immune response (By similarity). [UniProt]
Calculated Mw	40 kDa

Images



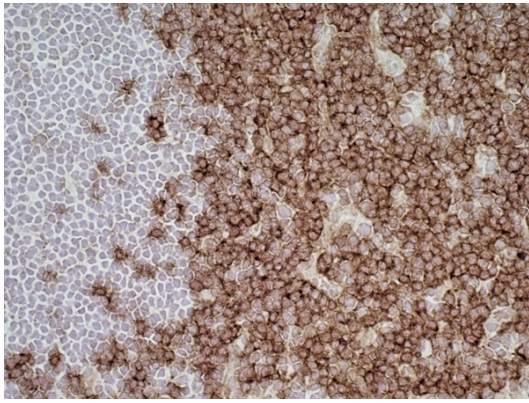
ARG23064 anti-CD43 antibody [W3/13] IHC-Fr image

Immunohistochemistry: Rat lymph node cryosection stained with ARG23064 anti-CD43 antibody [W3/13] followed by peroxidase conjugated Goat anti Mouse IgG1 antibody for detection. (Low power).



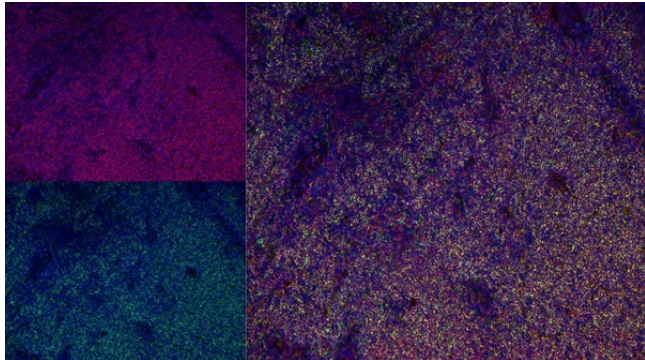
ARG23064 anti-CD43 antibody [W3/13] IHC-Fr image

Immunohistochemistry: Rat lymph node cryosection stained with ARG23064 anti-CD43 antibody [W3/13] followed by peroxidase conjugated Goat anti Mouse IgG1 antibody for detection. (Medium power).



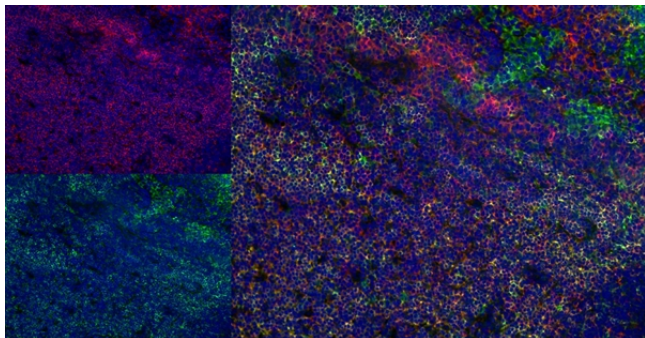
ARG23064 anti-CD43 antibody [W3/13] IHC-Fr image

Immunohistochemistry: Rat lymph node cryosection stained with ARG23064 anti-CD43 antibody [W3/13] followed by peroxidase conjugated Goat anti Mouse IgG1 antibody for detection. (High power).



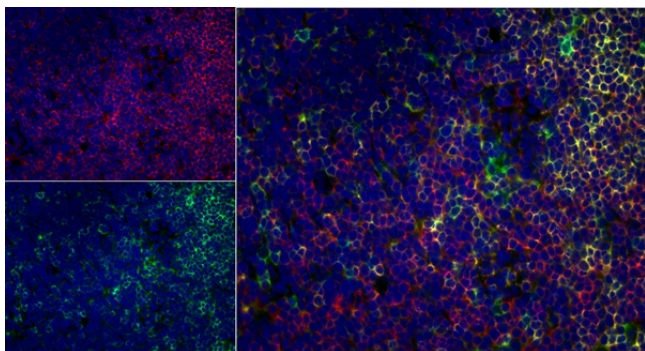
ARG23064 anti-CD43 antibody [W3/13] IHC-Fr image

Immunohistochemistry: Rat lymph node cryosection stained with ARG23064 anti-CD43 antibody [W3/13] in red and Mouse anti Rat CD4 in green. Merged image is on the right. (Low power).



ARG23064 anti-CD43 antibody [W3/13] IHC-Fr image

Immunohistochemistry: Rat lymph node cryosection stained with ARG23064 anti-CD43 antibody [W3/13] in red and Mouse anti Rat CD4 in green. Merged image is on the right. (Medium power).



ARG23064 anti-CD43 antibody [W3/13] IHC-Fr image

Immunohistochemistry: Rat lymph node cryosection stained with ARG23064 anti-CD43 antibody [W3/13] in red and Mouse anti Rat CD4 in green. Merged image is on the right. (High power).