Rat CD43 Antibody

Monoclonal Mouse IgG Clone # W3/13
Catalog Number: MAB10388

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat CD43 in direct ELISAs.
Source	Monoclonal Mouse IgG Clone # W3/13
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Rat thymocyte membrane glycoproteins Accession # P13838
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

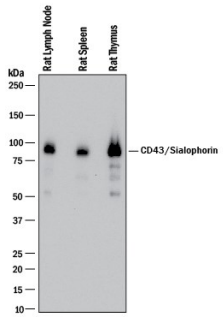
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Flow Cytometry	0.25 µg/10^6 cells	See Below
Immunohistochemistry	5-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

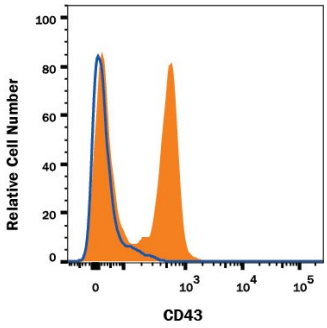
DATA

Western Blot



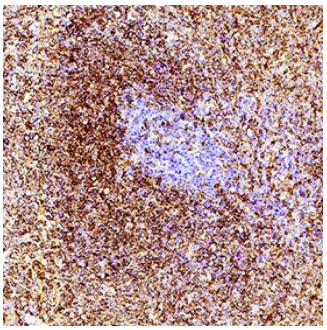
Detection of Rat CD43 by Western Blot. Western blot shows lysates of rat lymph node, rat spleen tissue, and rat thymus tissue. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Rat CD43 Monoclonal Antibody (Catalog # MAB10388) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for CD43 at approximately 90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry



Detection of CD43 in Rat Splenocytes by Flow Cytometry. Rat splenocytes were stained with Mouse Anti-Rat CD43 Monoclonal Antibody (Catalog # MAB10388, filled histogram) or Mouse IgG1 Flow Cytometry Isotype Control (Catalog # MAB002) followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). View our protocol for Staining Membrane-associated Proteins.

Immunohistochemistry



CD43 in Rat Thymus. CD43 was detected in immersion fixed paraffin-embedded sections of rat thymus using Mouse Anti-Rat CD43 Monoclonal Antibody (Catalog # MAB10388) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was incubated with VisUBlock™ Mouse on Mouse Blocking Reagent (Catalog # VB001) and then subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to lymphocytes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449

Rat CD43 Antibody

Monoclonal Mouse IgG Clone # W3/13
Catalog Number: MAB10388

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & 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.

BACKGROUND

CD43, also known as Leukosialin, Sialophorin, B-cell differentiation antigen LP-3 and Ly-48, is a type I transmembrane sialylated mucin that is expressed on most leukocytes and some tumor cells. Notably, the membrane expression of CD43 seems to be a characteristic of leukocytes, while cytoplasmic expression without membrane insertion occurs in endothelium and select epithelia. While CD43 restricts leukocyte adhesion and modulates T cell activation, these activities are context specific. CD43 can both induce and protect against apoptosis, and can either promote or block cell adhesion. In mouse, CD43 is synthesized as a 378 amino acid (aa) precursor that contains a 7 aa signal sequence, a 224 aa extracellular region, a 23 aa TM domain, and a 124 aa cytoplasmic tail. Rat CD43 extracellular region shares a 61% aa sequence identity with the extracellular region in mouse CD43.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 **Canada** TEL 855 668 8722 **China** TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449