

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD43 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 290101
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human CD43 Ser20-Pro400 Accession # P16150
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.

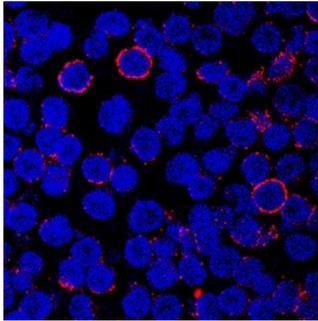
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below
Immunohistochemistry	1-25 µg/mL	See Below

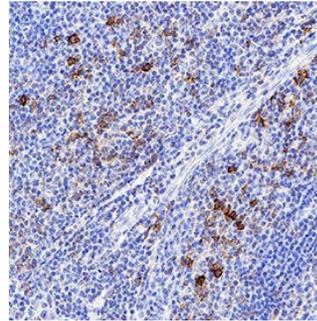
DATA

Immunocytochemistry



CD43 in Human PBMCs. CD43 was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using Mouse Anti-Human CD43 Monoclonal Antibody (Catalog # MAB20381) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

Immunohistochemistry



CD43 in Human Tonsil. CD43 was detected in immersion fixed paraffin-embedded sections of human tonsil using Mouse Anti-Human CD43 Monoclonal Antibody (Catalog # MAB20381) at 1.7 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 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 cell surfaces in lymphocytes. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

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. <ul style="list-style-type: none"> • 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 and Sialophorin and Ly-48 in mouse, is a 100-105 kDa 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. Mature CD43 shows 49% amino (aa) sequence identity between human and mouse.