

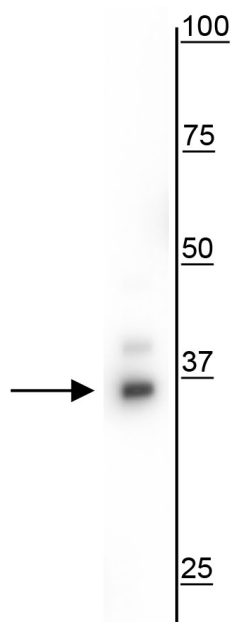
Product Datasheet

Anti-CD75 (Transferrin receptor)

Overview

Catalog #	312-CD75
Host Species	Mouse Monoclonal
Isotype	IgM
Clone	LN1
Format	Protein L purified
Applications	WB 1:100 IHC 1:100
Species Tested	Human
Immunogen	Nuclei isolated from pokeweed mitogen-stimulated human peripheral blood lymphocytes.
Molecular Weight	35 kDa
Cite this Antibody	PhosphoSolutions Cat# 312-CD75t, RRID:AB_2890167

Images



Western blot of T47D cell lysate showing specific immunolabeling of the ~35 kDa CD75 protein.

Details

Target Description	CD75, also known as β -galactoside α 2,6-sialyltransferase, is a specific carbohydrate antigen that is predominantly expressed on B cell lymphocytes. β -galactoside α 2,6-sialyltransferase is an enzyme that catalyzes the addition of sialic acid to growing carbohydrate chains of glycoproteins (Guy, K., et al, 1991). CD75 is a major component of the lymphoid cell surface that serves as a ligand for cell adhesion molecules (Paulson, J.C., et al, 1989). The LN-1 clone reacts positively with red blood cell precursors of the bone marrow, ciliated epithelial cells of the bronchus, distal tubular cells of the kidney, and ductal cells from several organs including the breast and prostate (Epstein, A.L., et al, 1984). CD75 has been shown to be superior to other B cell markers in detecting lymphocyte predominant cells through their cytoplasmic and membranous staining, especially in typical nodular lymphocyte-predominant Hodgkin lymphoma patterns (Carbone, A., et al, 2014).
Specificity	Specific for endogenous levels of the ~35 kDa CD75 protein.
Production/Purification	Protein L purified culture supernatant.
Quality Control	Western blots performed on each lot.
Buffer	PBS
Storage	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 μ L/vial depending on usage) upon arrival and stored long term at -20° C or -80° C, while keeping a working aliquot stored at 4° C for short term. Avoid freeze/thaw cycles.
Stability	After date of receipt, stable for at least 1 year at -20°C.

Significant Citations

Epstein, A.L., Marder, R.J., Winter, J.N. and Fox, R.I., 1984. Two new monoclonal antibodies (LN-1, LN-2) reactive in B5 formalin-fixed, paraffin-embedded tissues with follicular center and mantle zone human B lymphocytes and derived tumors. *The Journal of Immunology*, 133(2), pp.1028-1036.

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