

Anti-CD71 Antibody

Our Anti-CD71 mouse monoclonal primary antibody from PhosphoSolutions is produced in-house. It detects
Catalog # AN1328

Product Information

Application	WB, IHC
Primary Accession	P02786
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	DF1513
Calculated MW	84871

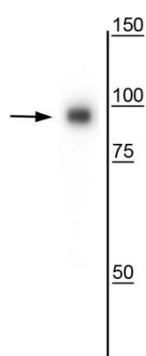
Additional Information

Gene ID	7037
Other Names	CD 71 antibody, CD71 antibody, CD71 antigen antibody, IMD46 antibody, OTTHUMP00000208523 antibody, OTTHUMP00000208524 antibody, OTTHUMP00000208525 antibody, p90 antibody, sTfR antibody, T9 antibody, TFR 1 antibody, TfR antibody, TfR1 antibody, TFR1_HUMAN antibody, TFRC antibody, TR antibody, Transferrin receptor (p90 CD71) antibody, Transferrin receptor protein 1, serum form antibody, Trfr antibody
Target/Specificity	CD71, also known as the transferrin receptor (TfR1), is a transmembrane glycoprotein whose primary function is to mediate cellular uptake of iron from a plasma glycoprotein, transferrin. CD71 is a widely used marker for cell activation or proliferation of lymphocytes as transferrin receptor expression is undetectable in resting T and B lymphocytes, but increases significantly upon lymphocyte antigen activation (Galbraith, R.M., et al 1981). Rapidly proliferating cells and energy-requiring cells, like cancer cells, osteoclasts (Roodman, G.D., 2009), and activated lymphocytes (Wieland, E., et al, 2016) express high levels of CD71 due to increased iron demand. TfR1 is seen as an efficient drug delivery system for cancer patients as it can mediate extracellular transferrin conjugated molecules for treatment (Luria-Perez, R., et al, 2016).
Dilution	WB~~1:1000 IHC~~1:100~500
Format	Protein G purified
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-CD71 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

CD71, also known as the transferrin receptor (TfR1), is a transmembrane glycoprotein whose primary function is to mediate cellular uptake of iron from a plasma glycoprotein, transferrin. CD71 is a widely used marker for cell activation or proliferation of lymphocytes as transferrin receptor expression is undetectable in resting T and B lymphocytes, but increases significantly upon lymphocyte antigen activation (Galbraith, R.M., et al 1981). Rapidly proliferating cells and energy-requiring cells, like cancer cells, osteoclasts (Roodman, G.D., 2009), and activated lymphocytes (Wieland, E., et al, 2016) express high levels of CD71 due to increased iron demand. TfR1 is seen as an efficient drug delivery system for cancer patients as it can mediate extracellular transferrin conjugated molecules for treatment (Luria-Perez, R., et al, 2016).

Images



Western blot of UV treated HeLa cell lysate showing specific immunolabeling of the ~98 kDa CD71 protein.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.