

Product datasheet for **SM2229R**

CD45 / LCA Mouse Monoclonal Antibody [Clone ID: UM16-6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UM16-6
Applications:	FC
Recommended Dilution:	Flow Cytometry: Neat - 1/5; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl.
Reactivity:	Chicken
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	COS cells transfected with CD45 gene.
Specificity:	This antibody recognizes CD45 (leucocyte common antigen).
Formulation:	Containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: PE State: Lyophilized purified IgG Label: R. Phycoerythrin (RPE)
Reconstitution Method:	Restore with 1.0 ml distilled water
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	PE
Storage:	Prior to and following reconstitution store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Database Link:	Q9I8D7



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Background:

CD45 is a heavily-glycosylated transmembrane protein tyrosine phosphatase (PTPase) expressed by all nucleated cells of haematopoietic origin. Variation in the expression of a particular CD45 isoform, is regulated during the haematopoietic development of the different cell lineages. CD45 is essential for antigen-induced signal transduction through the antigen receptor and as with other PTPase family members, acts in balance with protein tyrosine kinases, causing the dephosphorylation of negative regulatory tyrosine sites. Studies have indicated that dephosphorylation by CD45, is required for the activation of the src-family kinases p56lck and p59fyn. Investigations into the properties of CD45 in chicken models are limited, but there is evidence of the existence of an additional cysteine residue near the transmembrane region. The overall domain structure between mammalian and chicken CD45 appears to be conserved, but the sequence homology between the extracellular regions is very low.

Synonyms:

PTPRC, Leukocyte common antigen, L-CA, T200