

## Product datasheet for **AM09097SU-N**

### CD45 (PTPRC) Mouse Monoclonal Antibody [Clone ID: BRA-55]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	BRA-55
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Immunocytochemistry.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin Sections</b> (Pretreatment not required). <i>Recommended Dilutions:</i> 1/10-1/20 (Based on the Indirect method, with a normal ABC method the dilution can be 5-10x higher, but the optimal dilution should be tested by serial dilution). <i>Dilution Buffer:</i> PBS or TRIS.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Isolated from REH6 cell line
Specificity:	The antibody reacts with 170 - 220 kD cell surface glycoproteins (CD45), the Leukocyte Common Antigen (LCA), expressed selectively on hematopoietic cells. The monoclonal antibody LCA (CD45) is a useful marker to differentiate between lymphomas and carcinomas. Since this monoclonal gives a pronounced staining on formalin fixed paraffin embedded cells it is very useful in routine pathology.
Formulation:	State: Ascites State: Liquid Ascites Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	protein tyrosine phosphatase, receptor type C
Database Link:	<a href="#">Entrez Gene 5788 Human P08575</a>

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<b>Background:</b>	CD45 is a family of single chain transmembraneous glycoproteins consisting of at least four isoforms (220, 205, 190, 180 kDa) which share a common large intracellular domain. Their extracellular domains are heavily glycosylated. The different isoforms are produced by alternative messenger RNA splicing of three exons of a single gene on chromosome 1. CD45 is expressed on cells of the human hematopoietic lineage (including hematopoietic stem cells) with the exception of mature red cells. It is not detected on differentiated cells of other tissues. It is likely that CD45 plays an important role in signal transduction, inhibition or upregulation of various immunological functions. Antibodies recognising a common epitope on all of the isoforms are termed CD45 whilst those recognising only individual isoforms are termed CD45RA or CD45RO etc.
<b>Synonyms:</b>	PTPRC, Leukocyte common antigen, L-CA, T200
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Phosphatase, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs), Fc gamma R-mediated phagocytosis, Primary immunodeficiency, T cell receptor signaling pathway