

## Product Datasheet

### CD45 Antibody (orb153338)

<b>Catalog Number</b>	orb153338
<b>Category</b>	Antibodies
<b>Description</b>	<p>Goat polyclonal antibody to CD45. It is a 180-220 kDa type I transmembrane glycoprotein and a member of the protein tyrosine phosphatase (PTP) family. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. It is expressed in all hematopoietic cells, but highest on lymphocytes. PTPs are known to be signalling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. It has intrinsic tyrosine phosphatase activity and it is essential for T and B cell antigen receptor-mediated activation. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signalling. CD45 also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signalling. The cross-linking of CD45 induces apoptosis in lymphocytes.</p>
<b>Target</b>	Protein tyrosine phosphatase, receptor type, C
<b>Clonality</b>	Polyclonal
<b>Species/Host</b>	Goat
<b>Isotype</b>	IgG
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Bovine, Canine, Donkey, Equine, Feline, Gallus, Goat, Guinea pig, Hamster, Human, Mouse, Other, Porcine, Primate, Rabbit, Rat, Sheep
<b>Form/Appearance</b>	Polyclonal antibody supplied as a 200 or 500 µl (3 mg/ml) aliquot in PBS, 20% glycerol and 0.05% sodium azide. This antibody is epitope-affinity purified from goat antiserum.

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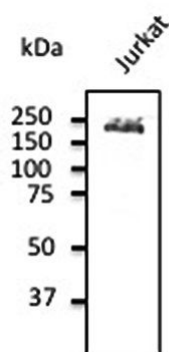
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<b>Concentration</b>	Please inquire
<b>Purification</b>	Epitope affinity purified
<b>Immunogen</b>	Antigen: Purified recombinant peptide derived from within residues 1,260 aa to the C-terminus of human CD45 produced in E. coli. Antigen Sequence: ANCVNPLGAPEKLPEAKEQAEGSEPTSGTEGPEHSVNGPASPALNQGS
<b>Tested applications</b>	IHC-Fr, IHC-P, WB
<b>Dilution range</b>	WB:1:500-1:2,000, IHC-P:1:250-1:1,000, IHC-F:1:250-1:1,000
<b>Application notes</b>	The antibody solution should be gently mixed before use.
<b>Specificity</b>	Using Jurkat cell lysate detects a band 180-220 kDa by Western blot.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



Western blot analysis of Jurkat cell line lysate using CD45 antibody.

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