

CD45 Mouse Monoclonal Antibody (12A9)

Catalog No: RA10239

Basic Information

| | |
|--------------------------|--|
| Host species | Mouse |
| Applications | WB, IHC |
| Species Cross-Reactivity | H |
| Specificity | The CD45 Mouse Monoclonal antibody detects endogenous CD45 proteins. |
| Recommended dilutions | WB: 1:2,000 IHC: 1:200 Optimal dilutions should be determined by the end user. |

Applications

| | |
|---------------|--|
| Formulation | PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Concentration | 1 mg/ml |
| Clonality | Monoclonal |

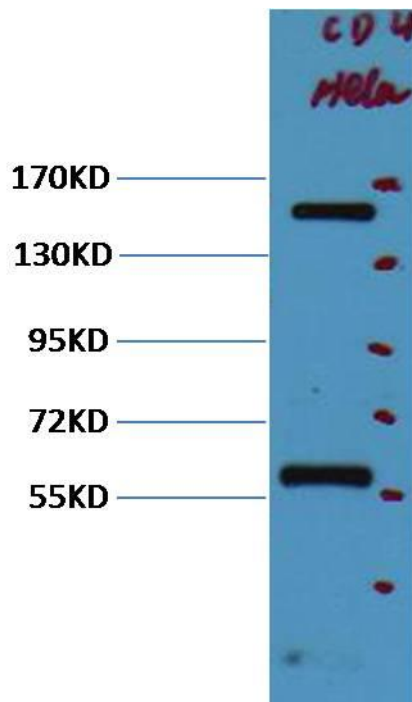
Background

| | |
|-------------------------|--------|
| Alternative Names | |
| Observed band | 147 |
| Human Gene ID | 5788 |
| Human Swiss-Prot Number | P06800 |

Background

CD45 is a family of single chain transmembraneous glycoproteins consisting of at least four isoforms 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.

Selected Validation Data



Western blot analysis of HeLa with CD45 mAb diluted at 1:2,000.