

Monoclonal Antibody to CD45 / LCA - Purified

Alternate names:	L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200
Catalog No.:	AM09001PU-S
Quantity:	50 µl
Concentration:	1.0 mg/ml
Background:	CD45 belongs to a family of heavily glycosylated, high molecular weight transmembrane glycoproteins expressed on all cells of haematopoietic origin. Structurally heterogeneous, CD45 consists of a family of eight isoforms ranging from 180,000 to 220,000 MW generated by alternative splicing of three exons differentially expressed on subpopulation of lymphocytes. CD45 protein tyrosine phosphatase activity plays a central role in T-cell activation. CD45 plays an important role in signal transduction inhibition or upregulation of various immunological functions.
Uniprot ID:	P08575
NCBI:	NP_002829.2
GeneID:	5788
Host / Isotype:	Mouse / IgG2a
Clone:	3G4
Immunogen:	Recombinant human CD45 (1029-1249 aa) purified from <i>E. coli</i> .
Format:	State: Liquid purified Ig fraction Purification: Protein-G affinity chromatography Buffer System: PBS, pH 7.4, containing 0.09% Sodium Azide as preservative.
Applications:	ELISA. Western blot (1/1,000-1/3,000), recommended starting dilution is 1/2000. Immunohistochemistry on Paraffin Sections (10 µg/ml). Heat induced antigen retrieval in pH 6.0 citrate buffer is recommended. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody recognizes Human CD45. Other species not tested. Species: Human Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

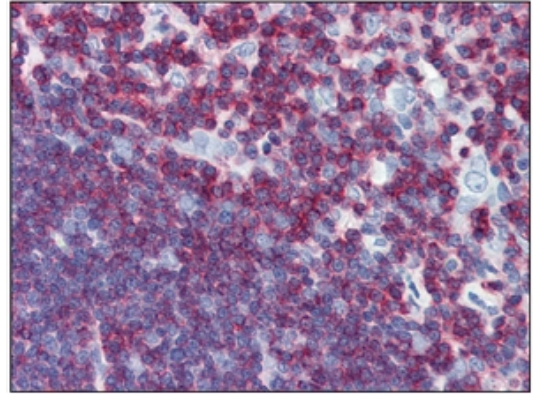
Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



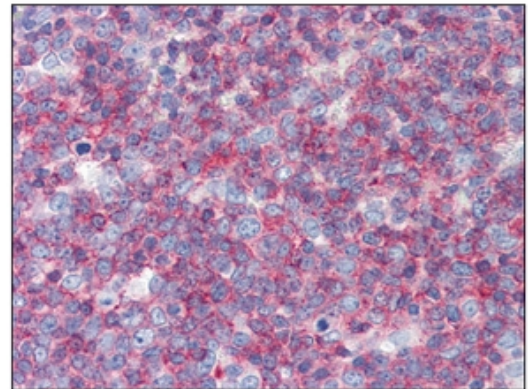
- General Readings:**
1. Evgueni K , et al., (2005) Immunogenetics 57(5):374-383
 2. Nick H , et al., (2005) Immunology 117(2):145-155
 3. Francois S , et al., (2004) Immunology 113(4):441-452
 4. Tara S , et al., (2003) Proc Natl Acad Sci U S A 100(10):5997-6002

Pictures:

Immunohistochemistry: AM09001PU-N
CD45 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Thymus at 10 µg/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Immunohistochemistry: AM09001PU-N
CD45 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Tonsil at 10 µg/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Western blot analysis on Jurkat cells:
Cell lysates of Jurkat (20 µg) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human CD45 (1:2000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

