SICGEN ANTIBODIES

Product Data Sheet

Catalogue No.	Qty:
AB0100-200	600 µg
AB0100-500	1.5 mg

Anti-CD45

Source: Goat

General description: 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.

Alternative names: B220, CD45 antigen, CD45R, GP180, L-CA, LCA, leukocyte common antigen, LY5, protein tyrosine phosphatase, PTPRC, receptor type c polypeptide, receptor-type tyrosine-protein phosphatase C, RP11-553K8.4, T200, T200 glycoprotein, T200 leukocyte common antigen antibody.

Form: 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.

Immunogen: Purified recombinant peptide derived from within residues 1,260 aa to the C-terminus of human CD45 produced in E. coli.

Specificity: Using Jurkat cell lysate detects a band 180-220 kDa by Western blot.

Reactivity: Reacts with Human, Rat, Mouse, Monkey and Canine proteins

Sample	WB	IHC (F)	IHC (P)	IF	ELISA
Human	+++	+++	+++	ND	ND
Rat	+++	+++	+++	ND	ND
Mouse	+++	+++	+++	ND	ND
Canine	+++	+++	+++	ND	ND

Sample	WB	IHC (F)	IHC (P)	IF	ELISA
Monkey	+++	+++	+++	ND	ND

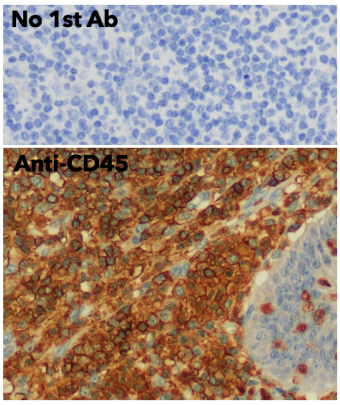
+++ excellent, ++ good, + poor, ND not determined

Usage:

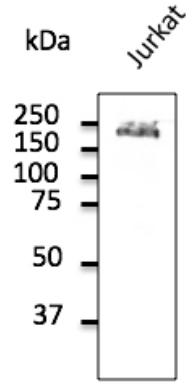
WB:	1:500-1:2,000
IHC (F):	1:250-1:1,000
IHC (P):	1:250-1:1,000

Storage: For continuous use, store at 2-8 C for one-two days. For extended storage, store in -20 C freezer. Working dilution samples should be discarded if not used within 12 hours.

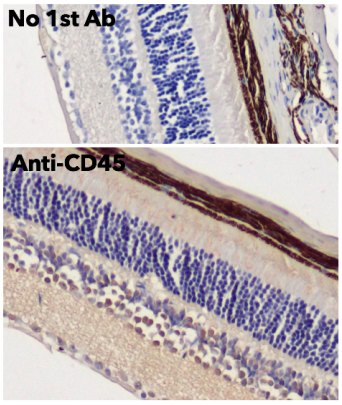
Special instructions: The antibody solution should be gently mixed before use..



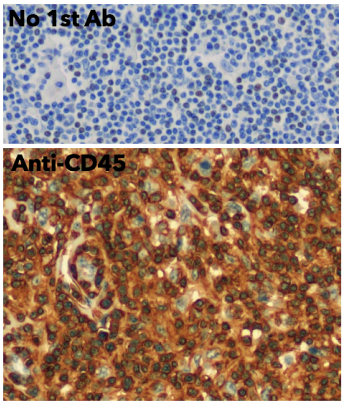
IHC of human appendix using anti-CD45 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CD45 Ab at 1:750/DAB detection;



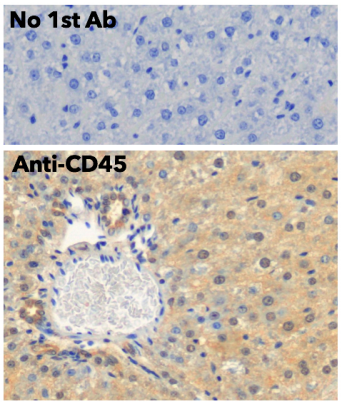
Endogenous CD45 detected with at 1/500 dilution; lysate at 100 µg per lane and rabbit polyclonal to goat IgG (HRP) at 1/10,000 dilution;



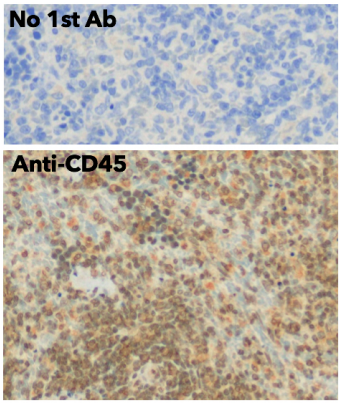
IHC of mouse eye using anti-CD45 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CD45 Ab at 1:750/DAB detection;



IHC of human lymph node using anti-CD45 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CD45 Ab at 1:500/DAB detection;



IHC of mouse liver using anti-CD45 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CD45 Ab at 1:500/DAB detection;



IHC of rat spleen using anti-CD45 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CD45 Ab at 1:500/DAB detection;

For research use only, not for diagnostic use

SICGEN's Proprietary Immunogen Policy

In order to produce high specific antibodies SICGEN has invested a lot of time and effort into selecting immunogen sequences. SICGEN has decided to protect this information by not publishing it on the website. However, these sequences are available on request.