ELK Biotechnology

HLA Class I rabbit pAb

Cat No.:ES8555

For research use only

Overview

Product Name	HLA Class I rabbit pAb
Host species	Rabbit
Applications	WB;ELISA
Species Cross-Reactivity	Human
Recommended dilutions	WB 1:500-2000, ELISA 1:10000-20000
Immunogen	The antiserum was produced against synthesized peptide derived from human HLA Class I. AA range:204-253
Specificity	The antibody detects endogenous HLA Class I protein
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	major histocompatibility complex, class I
Gene Name	HLA-A HLAA
Cellular localization	Golgi membrane,endoplasmic reticulum,Golgi apparatus,Golgi medial cisterna,plasma membrane,integral component of plasma membrane,cell surface,ER to Golgi transport vesicle membrane,membrane,integral component of membrane,
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C

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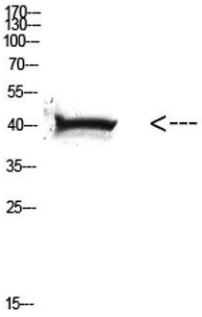
Concentration	1 mg/ml
Observed band	40kD
Human Gene ID	
Human Swiss-Prot Number	P01891/P01892/P04439/P05534/P10314/P10316/P13746/P16189/P18462/P30443/P30450/P30453/P30455/P30456/P30457/P30512/Q09160
Alternative Names	HLA-A HLAA
Background	HLA-A belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon 1 encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the peptide binding specificity of each class one molecule. Typing for these polymorphisms is routinely done for bone marrow and kidney trans



Western Blot analysis of HELA cells using Antibody diluted at 500. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

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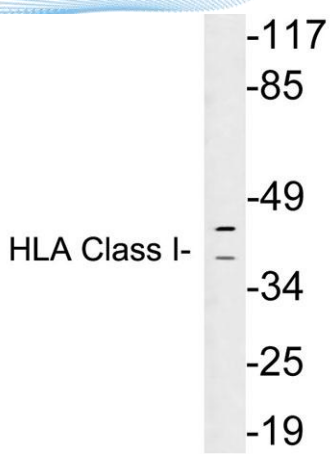

Western blot analysis of lysates from Ramos cells, using HLA Class I antibody.

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