



Mouse Monoclonal Antibody to HLA-B

Catalogue Number	sAP-1446
Target Molecule	Name: HLA-B Aliases: K19; CK19; K1CS MW: 44.1kDa Entrez Gene ID: 3880
Description	HLA-B 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, exon 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 poly-
Immunogen	Purified recombinant fragment of human HLA-B (AA: 241-362) expressed in E. Coli.
Recitative Species	Human;
Clone	MM2A11G7;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide
Reconstitution/Storages	Reconstituted with 100µl sterile DI H ₂ O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000; ICC: ; FCM: 1 to 200 - 1 to 400
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1.Pharmacogenomics J. 2015 Oct;15(5):467-72. ; 2.J Immunol. 2014 Jun 1;192(11):4967-76.;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**