

Rat Major histocompatibility complex I ELISA Kit | MHC 1 elisa kit

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CATALOG #
AAA83822

REACTIVITY
Rat

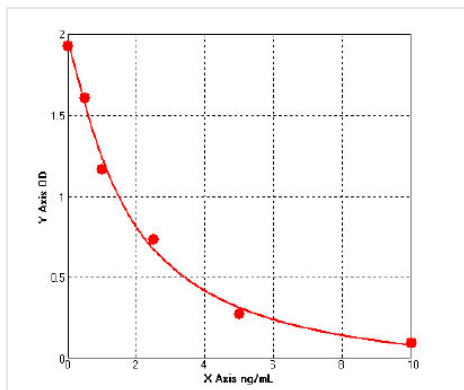
PRODUCT SYNONYMS

Major histocompatibility complex I; Rat Major histocompatibility complex I ELISA Kit; MHC 1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of MHCI. No significant cross-reactivity or interference between MHCI and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between MHCI and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MHC 1 elisa kit	Intended Uses: This MHCI ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat MHCI. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: MHCI ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-MHCI antibody and an MHCI-HRP conjugate. The assay sample and buffer are incubated together with MHCI-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the MHCI concentration since MHCI from samples and MHCI-HRP conjugate compete for the anti-MHCI antibody binding site. Since the number of sites is limited, as more sites are occupied by MHCI from the sample, fewer sites are left to bind MHCI-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The MHCI concentration in each sample is interpolated from this standard curve.
Product Categories/Family for MHC 1 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	1261808
NCBI GeneID	3106
Molecular Weight	40,460 Da
NCBI Official Full Name	major histocompatibility complex
NCBI Official Synonym Full Names	major histocompatibility complex, class I, B
NCBI Official Symbol	HLA-B
NCBI Official Synonym Symbols	AS; HLAB; SPDA1
NCBI Protein Information	major histocompatibility complex, class I, B; lymphocyte antigen; MHC class I antigen SHCHA; MHC Class I HLA heavy chain; MHC class I antigen GN00104; leukocyte antigen class I-B; MHC HLA-B cell surface glycoprotein; MHC HLA-B transmembrane glycoprotein; MHC class I antigen HLA-B heavy chain; HLA class I histocompatibility antigen, B alpha chain
UniProt Protein Name	HLA class I histocompatibility antigen, B-7 alpha chain
UniProt Gene Name	HLA-B
UniProt Synonym Gene Names	HLAB
UniProt Entry Name	1B07_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mhc-1-rat-elisa-kits/major-histocompatibility-complex-i/83822>