

Human Antigen Peptide Transporter 2 (TAP2) ELISA Kit | TAP2 elisa kit

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CATALOG #
AAA330686

REACTIVITY
Human

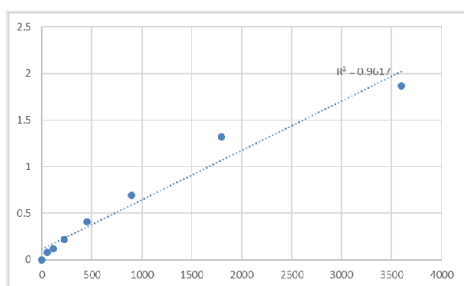
PRODUCT SYNONYMS

Antigen Peptide Transporter 2 (TAP2); Human Antigen Peptide Transporter 2 (TAP2) ELISA Kit; TAP2; DAAP-57C1.2; ABC18; ABCB3; APT2; D6S217E; PSF2; RING11; ABC transporter; MHC 2; ATP-binding cassette; sub-family B (MDR/TAP); member 3; antigen peptide transporter 2; peptide supply factor 2; peptide tr; TAP2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Antigen peptide transporter 2 (TAP2) ELISA Kit has high sensitivity and excellent specificity for detection of Human TAP2. No significant cross-reactivity or interference between Human TAP2 and analogues was observed.
Sequence Length	686
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Antigen peptide transporter 2 (TAP2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TAP2 elisa kit	Description: This Human Antigen peptide transporter 2 (TAP2) ELISA Kit employs a two-site sandwich ELISA to quantitate TAP2 in samples. An antibody specific for TAP2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TAP2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TAP2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TAP2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The membrane-associated protein encoded by TAP2 is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). Antigen peptide transporter 2 is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. This gene is located 7 kb telomeric to gene family member ABCB2. Antigen peptide transporter 2 is involved in antigen presentation. Antigen peptide transporter 2 forms a heterodimer with ABCB2 in order to transport peptides from the cytoplasm to the endoplasmic reticulum. Mutations in TAP2 may be associated with ankylosing spondylitis, insulin-dependent diabetes mellitus, and celiac disease. Alternative splicing of this gene produces products which differ in peptide selectivity and level of restoration of surface expression of MHC class I molecules.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	549044
NCBI GeneID	6891
UniProt Accession #	Q03519
NCBI Official Full Name	Antigen peptide transporter 2
NCBI Official Synonym Full Names	transporter 2, ATP binding cassette subfamily B member
NCBI Official Symbol	TAP2
NCBI Official Synonym Symbols	APT2; PSF2; ABC18; ABCB3; PSF-2; RING11; D6S217E
NCBI Protein Information	antigen peptide transporter 2
UniProt Protein Name	Antigen peptide transporter 2
UniProt Gene Name	TAP2
UniProt Synonym Gene Names	ABCB3; PSF2; RING11; Y1; APT2; PSF-2
UniProt Entry Name	TAP2_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.