For Research Use Only

TK1 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number:88812-2-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
88812-2-PBS

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG8249

GenBank Accession Number:
BC007986

GeneID (NCBI):
7083

UNIPROT ID:
P04183

Full Name:
thymidine kinase 1, soluble

Calculated MW:
25 kDa

Observed MW:
25-30 kDa

Purification Method:
Protein A purification

CloneNo.:
261632C8

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Indirect ELISA

Species Specificity:
human

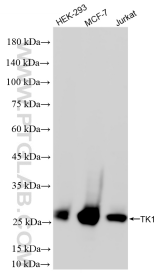
Background Information

TK1(Thymidine kinase, cytosolic) belongs to the thymidine kinase family and is a regulatory enzyme that can interchange between its dimeric and tetrameric forms, which have low and high catalytic efficiencies, respectively. TK1 is involved in DNA synthesis and an important proliferation marker(PMID:21178264).

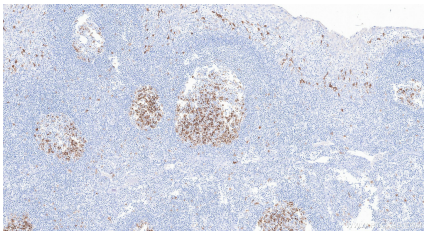
Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

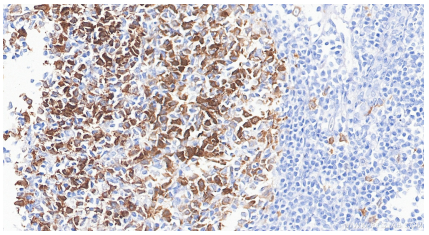
Selected Validation Data



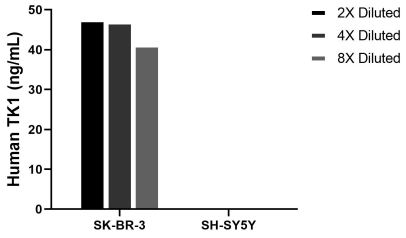
Various lysates were subjected to SDS PAGE followed by western blot with 88812-2-RR (TK1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88812-2-PBS in a different storage buffer formulation.



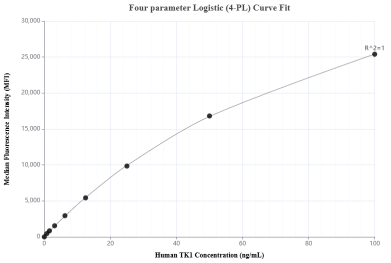
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 88812-2-RR (TK1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 88812-2-PBS in a different storage buffer formulation.



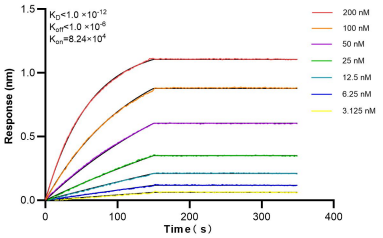
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 88812-2-RR (TK1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 88812-2-PBS in a different storage buffer formulation.



The mean TK1 concentration was determined to be 45.2 ng/mL in SK-BR-3 cell extract based on a 1.2 mg/mL extract load, SH-SY5Y cell extract were served as a negative control.



Cytometric bead array standard curve of MP03672-1, TK1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 88812-3-PBS. Detection antibody: 88812-2-PBS. Standard: Ag8249. Range: 0.781-100 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 88812-2-RR against Human TK1 were performed. The affinity constant is below 1 pM.