For Research Use Only

# TK1 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number:88812-2-PBS

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

## Basic Information

Catalog Number:
88812-2-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

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

## Product Information

88812-2-PBS targets TK1 as part of a matched antibody pair:

MP03672-1: 88812-3-PBS capture and 88812-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

## 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).

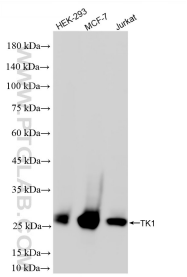
## Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

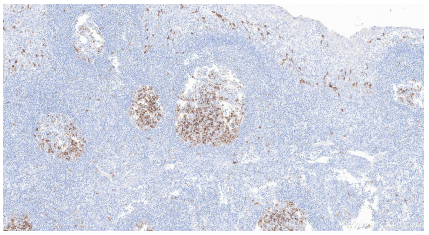
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

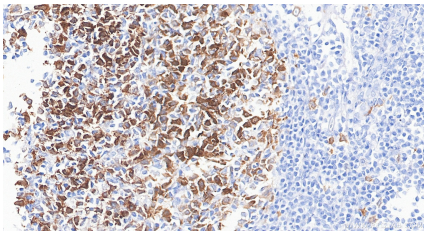
## Selected Validation Data



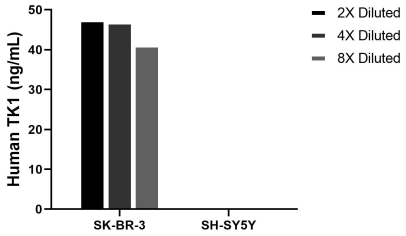

Various lysates were subjected to SDS PAGE followed by western blot with 88812-2-RR (TK1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88812-2-PBS in a different storage buffer formulation.



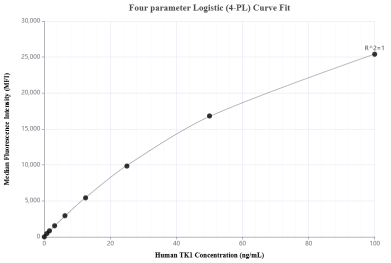
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 88812-2-RR (TK1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 88812-2-PBS in a different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