

# STAMBP Recombinant monoclonal antibody

Catalog Number: 86601-3-RR

## Basic Information

**Catalog Number:**

86601-3-RR

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1895

**GenBank Accession Number:**

BC007682

**GeneID (NCBI):**

10617

**UNIPROT ID:**

O95630

**Full Name:**

STAM binding protein

**Calculated MW:**

48 kDa

**Observed MW:**

48 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

251545B3

**Recommended Dilutions:**

WB: 1:5000-1:50000

IF/ICC: 1:50-1:500

## Applications

**Tested Applications:**

WB, IF/ICC, ELISA

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

WB : A549 cells, NIH/3T3 cells, rat brain tissue, Jurkat cells, SW480 cells, K-562 cells, mouse brain tissue

IF/ICC : K-562 cells,

## Background Information

STAM-binding protein (STAMBP) is also named AMSH. STAMBP, a member of the Jab1/MPN metalloenzyme family of deubiquitinating enzymes (DUBs), specifically cleaves K63-linked polyubiquitination chains from substrates (PMID: 15314065, PMID: 26601948). STAMBP is implicated in the endosome-lysosome pathway and shuttles ubiquitinated substrate proteins to lysosomes for degradation (PMID: 10383417, PMID: 24151880). STAMBP regulates protein degradation by binding to the ESCRT-0 protein STAM and the charged multivesicular body proteins of the ESCRT-III complex (PMID: 20159979). STAMBP is implicated in the inflammatory response by promoting the deubiquitination and stabilization of NALP7 and increasing the activity of inflammasomes (PMID: 28492230). STAMBP expression was increased in the cytoplasm of tumor cells from LUAD patients. STAMBP overexpression promoted cell migration and invasion, whereas STAMBP knockdown attenuated these processes in LUAD cells after epidermal growth factor treatment (PMID: 3410245).

## Storage

**Storage:**

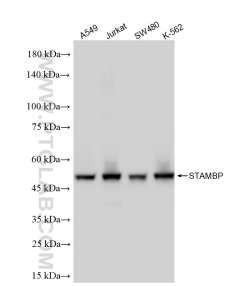
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

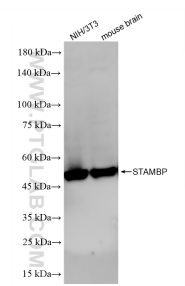
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

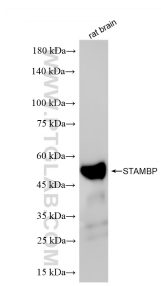
Selected Validation Data



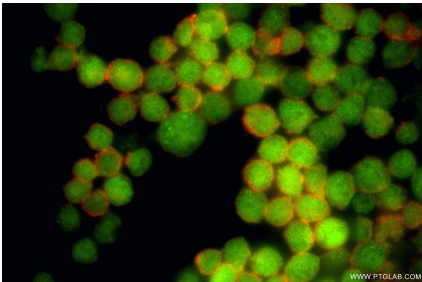
Various lysates were subjected to SDS PAGE followed by western blot with 86601-3-RR (STAMBP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



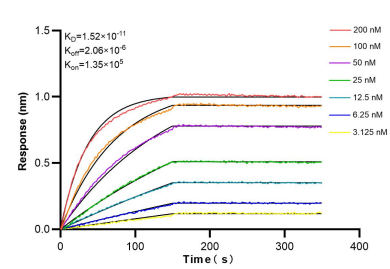
Various lysates were subjected to SDS PAGE followed by western blot with 86601-3-RR (STAMBP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Rat brain tissue was subjected to SDS PAGE followed by western blot with 86601-3-RR (STAMBP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using STAMBP antibody (86601-3-RR, Clone: 251545B3 ) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 86601-3-RR against Human STAMBP were performed. The affinity constant is 15.2 pM.