

For Research Use Only

# NSF Polyclonal antibody

Catalog Number: 21172-1-AP

1 Publications



## Basic Information

Catalog Number:

21172-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 380 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15422

GenBank Accession Number:

BC030613

GeneID (NCBI):

4905

UNIPROT ID:

P46459

Full Name:

N-ethylmaleimide-sensitive factor

Calculated MW:

744 aa, 83 kDa

Observed MW:

83 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:100-1:400

## Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

IF

Species Specificity:

human, mouse, rat

Cited Species:

mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : mouse brain tissue, mouse cerebellum tissue, rat brain tissue

IP : mouse brain tissue,

IHC : mouse brain tissue,

## Background Information

The N-ethylmaleimide-sensitive fusion protein (NSF) is a 70-83 kDa cytosol protein that is expressed in all cell types. NSF functions as an ATPase and it is a part of the 20S membrane fusion apparatus with the vesicular SNAP receptor (v-SNARE) synaptobrevin, and the target SNAREs (t-SNARE) syntaxin and SNAP-25. With the hydrolysis of ATP by NSF, the released energy may set-up or drive membrane fusion processes. NSF is required for general membrane transport and trafficking.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhaokang Cui	35017645	Cell Death Differ	IF

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

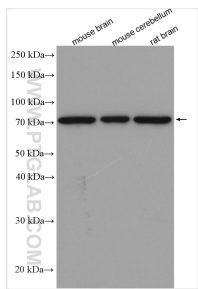
For technical support and original validation data for this product please contact:

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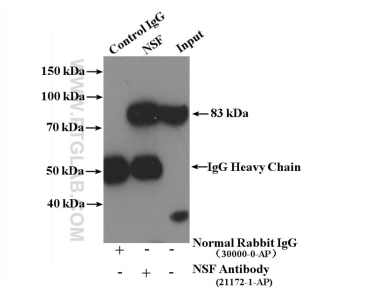
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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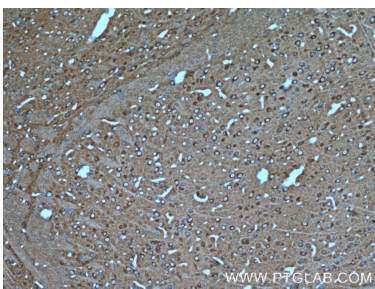
Selected Validation Data



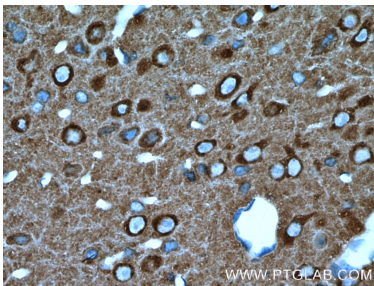
Various lysates were subjected to SDS PAGE followed by western blot with 21172-1-AP (NSF antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-NSF (IP:21172-1-AP, 4ug; Detection:21172-1-AP 1:300) with mouse brain tissue lysate 3000ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21172-1-AP (NSF Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21172-1-AP (NSF Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0).