

For Research Use Only

# EEFSEC Polyclonal antibody

Catalog Number: 10628-1-AP

1 Publications



## Basic Information

Catalog Number:

10628-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0980

GenBank Accession Number:

BC007933

GeneID (NCBI):

60678

UNIPROT ID:

P57772

Full Name:

eukaryotic elongation factor, selenocysteine-tRNA-specific

Calculated MW:

63 kDa

Observed MW:

65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human

**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 : A549 cells, A431 cells, HEK-293 cells, Jurkat cells, HepG2 cells

IHC : human kidney tissue, human stomach tissue

## Background Information

The amino acid selenocysteine (Sec) is incorporated into a small group of proteins that are involved in preventing cellular oxidative stress. The Sec-specific elongation factor eEFec delivers the aminoacylated selenocysteine-tRNA (Sec-tRNA<sup>Sec</sup>) to the ribosome and suppresses UGA codons that are upstream of Sec Insertion Sequence (SECIS) elements bound by SECIS binding protein 2 (SBP2)[PMID:22992746]. It probably replaces EF-Tu for the insertion of selenocysteine directed by the UGA codon.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nina Zeng	33471625	Am J Physiol Cell Physiol	WB

## 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

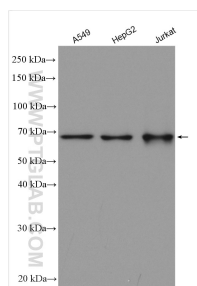
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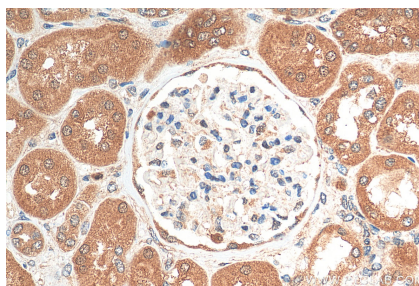
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10628-1-AP (EEFSEC antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 10628-1-AP (EEFSEC antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).