

For Research Use Only

XPOT Polyclonal antibody, PBS Only

Catalog Number:12577-1-PBS



Basic Information

Catalog Number:

12577-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3256

GenBank Accession Number:

BC020569

GeneID (NCBI):

11260

UNIPROT ID:

O43592

Full Name:

exportin, tRNA (nuclear export receptor for tRNAs)

Calculated MW:

962 aa, 110 kDa

Observed MW:

100-110 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human

Background Information

XPOT (also known as Exportin-T) is a key member of the karyopherin- β family of nuclear transport receptors, specifically responsible for the export of a critical class of small non-coding RNAs, transfer RNAs (tRNAs), from the nucleus to the cytoplasm. This process is essential for protein synthesis, as tRNAs must function in the cytoplasm to decode mRNA sequences and deliver amino acids to the growing polypeptide chain. XPOT recognizes mature tRNAs that have been properly processed and aminoacylated in the nucleus, loading them in a RanGTP-dependent manner. Upon translocation through the nuclear pore complex, the hydrolysis of RanGTP to RanGDP in the cytoplasm triggers the release of the tRNA cargo, thereby ensuring that only functional tRNAs are utilized for translation and maintaining the spatial separation of nuclear and cytoplasmic processes.

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

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

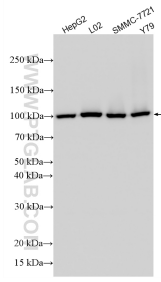
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12577-1-AP (XPOT antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12577-1-PBS in a different storage buffer formulation.