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XPOT Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7632a

Specification

XPOT Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	O43592
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**109964**
Antigen Region	**137-166**

XPOT Antibody (N-term) - Additional Information

Gene ID 11260

Other Names
Exportin-T, Exportin(tRNA), tRNA exportin, XPOT

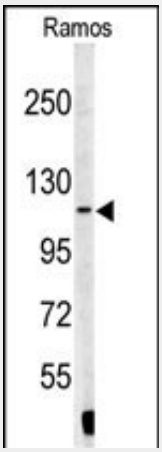
Target/Specificity
This XPOT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 137-166 amino acids from the N-terminal region of human XPOT.

Dilution
WB~~1:1000
IHC-P~~1:50~100

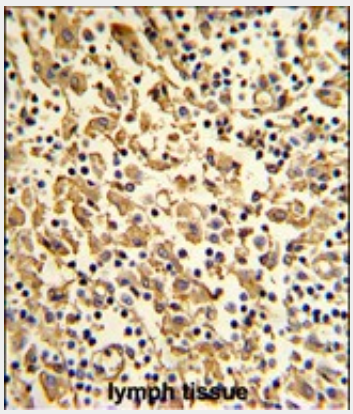
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
XPOT Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.



Western blot analysis of XPOT antibody (N-term) (Cat.#AP7632a) in Ramos cell line lysates (35ug/lane). XPOT (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human lymph with XPOT Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

XPOT Antibody (N-term) - Background

XPOT is a protein belonging to the RAN-GTPase exportin family that mediates export of tRNA from the nucleus to the

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XPOT Antibody (N-term) - Protein Information

Name XPOT

Function
Mediates the nuclear export of aminoacylated tRNAs. In the nucleus binds to tRNA and to the GTPase Ran in its active GTP-bound form. Docking of this trimeric complex to the nuclear pore complex (NPC) is mediated through binding to nucleoporins. Upon transit of a nuclear export complex into the cytoplasm, disassembling of the complex and hydrolysis of Ran-GTP to Ran-GDP (induced by RANBP1 and RANGAP1, respectively) cause release of the tRNA from the export receptor. XPOT then return to the nuclear compartment and mediate another round of transport. The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus.

Cellular Location
Nucleus. Cytoplasm. Note=Nuclear, once bound to tRNA and Ran the complex translocates to the cytoplasm. Shuttles between the nucleus and the cytoplasm cytoplasm. Translocation of tRNA to the cytoplasm occurs once exportin has bound both tRNA and GTP-bound RAN.

XPOT Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

XPOT Antibody (N-term) - References

Li,S. , RNA Biol 3 (4), 145-149 (2006)
Suzuki,T., Biomed. Res. 27 (2), 89-92 (2006)
Kuersten,S., Mol. Cell. Biol. 22 (16), 5708-5720 (2002)