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GTPBP1 Rabbit pAb

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Catalog # AP56233

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O00178
Reactivity	Rat
Predicted	Dog, Human, Mouse, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	72454
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GTPBP1
Epitope Specificity	501-600/669
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is upregulated by interferon-gamma and encodes a protein that is a member of the AGP11/GTPBP1 family of GTP-binding proteins. A structurally similar protein has been found in mouse, where disruption of the gene for that protein had no observable phenotype. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	9567
Other Names	GTP-binding protein 1, G-protein 1, GP-1, GP1 {ECO:0000312|EMBL:AAH14075.3}, 3.6.5.3, GTPBP1 (HGNC:4669)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GTPBP1 (HGNC:4669)
Function	GTPase that plays a role in the elongation phase of protein synthesis by

forming ternary complexes with GTP and aminoacyl-transfer RNAs (aa-tRNAs), and delivering aa-tRNAs to the ribosomal A site in a GTP-dependent manner (PubMed:30108131). Is also able to deliver deacylated tRNA to the A site (PubMed:30108131). Additionally, it is involved in RNA quality control; after GTP hydrolysis, which is not immediately followed by rapid peptide bond formation, GTPBP1 likely retains aa-tRNA in the A site and promotes exosomal degradation of faulty mRNAs engaged in 80S elongation complexes (PubMed:30108131). Plays a role in the regulation of circadian mRNA stability (By similarity).

Cellular Location Cytoplasm {ECO:0000250|UniProtKB:D2XV59}.

Background

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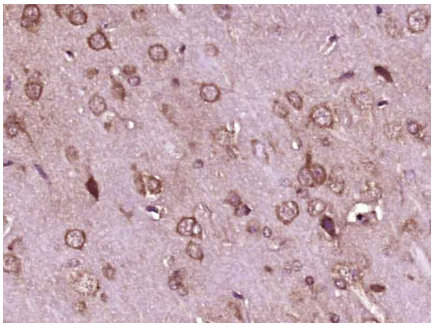
Images



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GTPBP1) Polyclonal Antibody, Unconjugated (AP56233) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.