

MYCBPAP Rabbit pAb

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Catalog # AP55221

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8TBZ2
Reactivity	Rat, Mouse
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	111926
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MYCBPAP
Epitope Specificity	401-500/947
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. Membrane. Colocalizes with MYCBP in the cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	AMAP-1 (AMY-1-binding protein 1), also known as AMAM-1 or MYCBPAP (MYCBP associated protein), is a 947 amino acid protein that is expressed specifically in testis and is involved in spermatogenesis and synaptic processes. AMAP-1 colocalizes with MYCBP (AMY-1) in cytoplasm and also localizes to membrane. The gene encoding AMAP-1 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.

Additional Information

Gene ID	84073
Other Names	MYCBP-associated protein, AMAM-1, AMY-1-binding protein 1, AMAP-1, MYCBPAP {ECO:0000312 EMBL:AAH28393.1}
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.

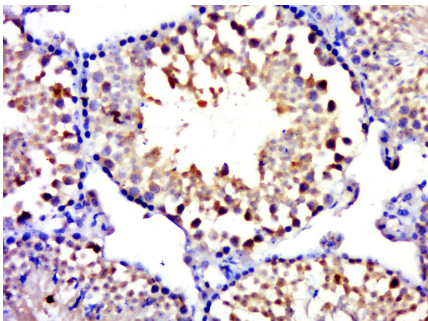
Protein Information

Name	MYCBPAP {ECO:0000312 EMBL:AAH28393.1}
Function	Plays a crucial role in centrosome-nuclear envelope docking during spermiogenesis, a key step for anchoring the centrosome to the nucleus that is essential for proper sperm flagellum biogenesis. Also required for acrosome biogenesis, manchette organization, and spermatid head morphogenesis, contributing to the complete and functional assembly of the sperm flagellum.
Cellular Location	Membrane {ECO:0000250 UniProtKB:Q69CM7}. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250 UniProtKB:Q5SUV2}. Cell projection, cilium, flagellum {ECO:0000250 UniProtKB:Q5SUV2}. Cytoplasmic vesicle, secretory vesicle, acrosome. Note=Localizes in the sperm flagellum and central apparatus of the flagellar axoneme {ECO:0000250 UniProtKB:Q5SUV2}
Tissue Location	[Isoform 2]: Expressed specifically in testis.

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Images



Paraformaldehyde-fixed, paraffin embedded (mouse testis); 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 (MYCBPAP) Polyclonal Antibody, Unconjugated (AP55221) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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