

Mouse anti-Human, Mouse Parafibromin Monoclonal Antibody | anti-CDC73 antibody

Parafibromin

CATALOG # AAA59299	HOST Mouse	REACTIVITY Human, Mouse	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

Parafibromin; Monoclonal Antibody; anti-CDC73 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG1
Form/Format	Parafibromin is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.
Sequence Length	531
Applicable Applications for anti-CDC73 antibody	IHC (Immunohistochemistry)
Localization	Nuclear
Control	Parathyroid, Colon, Testis, Adrenal, Breast, Cervix, Lymphoblastic Lymphoma, Bladder TCC
Precautions	1. For professional users only. Ensure results are interpreted by a medical professional. 2. This product contains sodium azide (NaN₃), a toxic chemical which may react with plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent sodium azide build-up. 3. Ensure proper handling procedures are used with reagent. Always wear proper laboratory equipment such as laboratory coat and gloves when handling reagents. 4. Unused solution should be disposed of according to local and federal regulations. 5. Do not ingest reagent. If reagent ingested, contact a poison control center immediately. 6. For complete recommendations for handling biological specimens please refer to the CDC document, "Guidelines for Safe Work Practices in Human and Animal Laboratories" (4).
Intended Use	This antibody is intended for use in Immunohistochemical applications on formalin-fixed paraffin-embedded tissues (FFPE), frozen tissue sections and cell preparations. Interpretation of results should be performed by a qualified medical professional.
Immunogen	Synthetic peptide corresponding to the N-residues of human parafibromin.
Specimen Preparation	Paraffin sections: The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation to ensure best results. Pre-treatment of tissues with heat-induced epitope retrieval (HIER) is recommended. Tissue should remain hydrated. Frozen sections and cell preparations: The antibody can be used for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.

Staining Procedure

1. Cut and mount 3-5 micron formalin-fixed paraffin-embedded tissues on positive charged slides.
2. Air dry for 2 hours at 58° C.
3. Deparaffinize, dehydrate and rehydrate tissues.
4. Subject tissues to heat epitope retrieval using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate or EDTA.
5. Any of three heating methods may be used:
 - a. TintoRetriever Pressure Cooker or Equivalent Place tissues/slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA, and place in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high. Incubate for 15 minutes. Open and immediately transfer slides to room temperature.
 - b. TintoRetriever PT Module or Water Bath Method Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA at 95°-99° C. Incubate for 30-60 minutes.
 - c. Conventional Steamer Method Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA in a Steamer, cover and steam for 30-60 minutes.
6. After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate or EDTA to room temperature and let stand for 15-20 minutes.
7. For manual staining, perform antibody incubation at ambient temperature. For automated staining methods, perform antibody incubation according to instrument manufacturer's instructions.
8. Wash slides with IHC wash buffer or DI water.
9. Continue IHC staining protocol.

Preparation and Storage

Store at 2-8°C. Do not use after expiration date listed on package label. Temperature fluctuations should be avoided. Store appropriately when not in use, and avoid prolonged exposure to room temperature conditions.

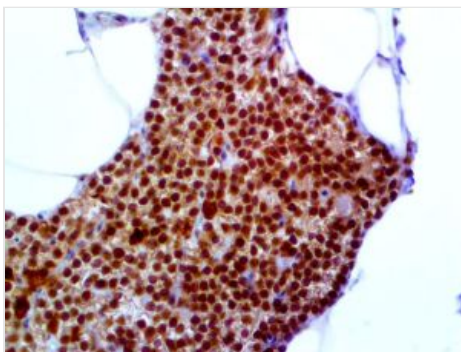
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Performance Characteristics	
Normal Tissues	
Positive (+)	
Colon	10/10 (100%)
Testis	7/10 (70%)
Negative (-)	
Tonsil	0/5 (0%)
Liver	0/5 (0%)
Abnormal Tissues	
Positive (+)	
Parathyroid Carcinomas	10/15 (66%)
Colon Carcinoma	3/5 (60%)
Lymphoblastic Lymphoma	3/5 (60%)

Recommended IHC Protocol			
Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate-Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain	Varies	Varies	Varies

IHC (Immunohistochemistry)

Application Data



IHC (Immunohistochemistry)
IHC of Parafibromin on an FFPE Parathyroid Carcinoma Tissue

Antibody Type	Dilution	Volume/Qty
Tinto Prediluted	Ready-to-Use	3.0 mL
Tinto Prediluted	Ready-to-Use	7.0 mL
Tinto Prediluted	Ready-to-Use	15.0 mL
Concentrated	1:25 - 1:100	0.1 mL
Concentrated	1:25 - 1:100	0.5 mL
Concentrated	1:25 - 1:100	1.0 mL
Control Slides	Not Applicable	5 slides

Dilution Info

ADDITIONAL INFORMATION

Related Product Information for anti-CDC73 antibody	Cell division cycle 73, Paf1/RNA polymerase II complex component, homolog (S.cerevisiae), also known as CDC73 and parafibromin, is a protein which in humans is encoded by the CDC73 gene. Mutations in the CDC73 gene are associated with hyperparathyroidism-jaw tumor syndrome (HPT-JT) and parathyroid carcinomas.The proposed role of HRPT2 as a tumor suppressor was supported by mutation screening in parathyroid adenomas with cystic features, which identified three somatic inactivating mutations, all located in exon 1. None of these mutations were detected in normal controls, and all were predicted to cause deficient or impaired protein function. Sporadic parathyroid carcinomas frequently have HRPT2 mutations that are likely to be of pathogenetic importance. Certain patients with apparently sporadic parathyroid carcinoma carry germ-line mutations in HRPT2 and may have the HPT-JT syndrome or a phenotypic variant.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	40018640
NCBI GeneID	79577
NCBI Accession #	NP_078805.3
NCBI GenBank Nucleotide #	NM_024529.4
Molecular Weight	60,577 Da
NCBI Official Full Name	parafibromin
NCBI Official Synonym Full Names	cell division cycle 73
NCBI Official Symbol	CDC73
NCBI Official Synonym Symbols	HYX; FIHP; HPTJT; HRPT1; HRPT2; C1orf28
NCBI Protein Information	parafibromin
UniProt Protein Name	Parafibromin
UniProt Gene Name	CDC73
UniProt Synonym Gene Names	C1orf28; HRPT2
UniProt Entry Name	CDC73_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/parafibromin-antibody-immunohistochemistry-elisa/59299>