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NMES1 Rabbit pAb

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Catalog # AP57465

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9C002
Reactivity	Rat
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	9617
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NMES1
Epitope Specificity	31-83/83
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	Nucleus.
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 was first identified in a study of human esophageal squamous cell carcinoma tissues. Levels of both the message and protein are reduced in carcinoma samples. In adult human tissues, this gene is expressed in the the esophagus, stomach, small intestine, colon and placenta. Alternatively spliced transcript variants that encode the same protein have been identified. [provided by RefSeq, Jun 2012]

Additional Information

Gene ID	84419
Other Names	Cytochrome c oxidase associated subunit FA4L3, Modulator of cytochrome C oxidase during inflammation protein, MOCCI, Normal mucosa of esophagus-specific gene 1 protein, NMES1, Protein FOAP-11, COXFA4L3 (HGNC:29898)
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.

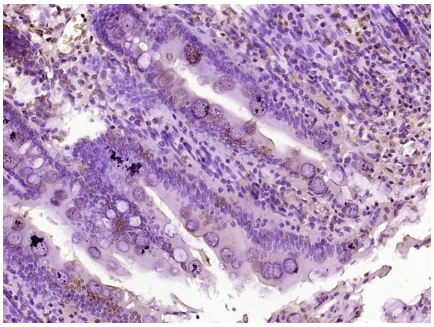
Protein Information

Name	COXFA4L3 (HGNC:29898)
Function	Mitochondrial small peptide that orchestrates a two-pronged immunoregulatory mechanism in response to inflammatory stimuli. Replaces the canonical cytochrome c oxidase subunit COXFA4 in mitochondrial complex IV and targets it to degradation, attenuating mitochondrial respiration, reducing membrane potential as well as ROS generation and modulates innate immune signaling (PubMed:33837217, PubMed:34878835). Additionally, initiates stress-independent autophagy by lowering ATP levels, activating AMPK-ULK1 signaling, boosting glutathione production, and thereby mitigating oxidative stress and supporting immune tolerance (PubMed:38296961).
Cellular Location	Mitochondrion inner membrane; Single-pass membrane protein
Tissue Location	Expressed mainly in stomach, placenta, small intestine and colon, as well as in normal mucosa of esophagus. Down- regulated in esophageal squamous cell carcinoma (PubMed:12209954) Expressed in macrophages (PubMed:34878835)

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Rat intestine); 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 (NMES1) Polyclonal Antibody, Unconjugated (AP57465) 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'.