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API5 Rabbit pAb

Catalog # AP99456

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9BZZ5
Other Accession	Q9BZZ5
Reactivity	Rat, Mouse
Predicted	Pig, Human, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59005
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human API5
Epitope Specificity	351-460/504
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the API5 family.
SUBUNIT	Monomer. Interacts with FGF2 and ACIN1.
Post-translational modifications	Acetylation at Lys-251 impairs antiapoptotic function.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Apoptosis inhibitor 5 (API5) is an antiapoptotic factor which may have a role in protein assembly. API5 expression is often upregulated in tumor cells, particularly in metastatic cells. It is a critical determinant of E2F1-induced apoptosis, acting downstream of E2F to suppress E2F-dependent apoptosis without generally blocking E2F-dependent transcription. Alternate Names: AAC 11; AAC11; Antiapoptosis clone 11 protein; API 5; API5; API5 like 1; API5L1; Cell migration inducing gene 8 protein; Fibroblast growth factor 2 interacting factor 2; FIF; MIG 8; MIG8; Migration inducing protein MIG8; Protein XAGL. Function : Antiapoptotic factor that may have a role in protein assembly. Negatively regulates ACIN1. By binding to ACIN1, it suppresses ACIN1 cleavage from CASP3 and ACIN1-mediated DNA fragmentation. Also known to efficiently suppress E2F1-induced apoptosis. Its depletion enhances the cytotoxic action of the chemotherapeutic drugs.

Additional Information

Gene ID	8539
Other Names	AAC-11; AAC11; API-5; API5_HUMAN; API5; Antiapoptosis clone 11 protein (AAC-11); Cell migration-inducing gene 8 protein; Fibroblast growth factor 2-interacting factor (FIF); Protein XAGL; API5_MOUSE; apoptosis inhibitor 5; API5-like 1; fibroblast growth factor 2-interacting factor 2; migration-inducing

	protein MIG8
Dilution	WB=1:500-2000,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	API5 (HGNC:594)
Function	Antiapoptotic factor that may have a role in protein assembly. Negatively regulates ACIN1. By binding to ACIN1, it suppresses ACIN1 cleavage from CASP3 and ACIN1-mediated DNA fragmentation. Also known to efficiently suppress E2F1-induced apoptosis. Its depletion enhances the cytotoxic action of the chemotherapeutic drugs.
Cellular Location	Nucleus. Cytoplasm. Note=Mainly nuclear. Can also be cytoplasmic
Tissue Location	Expressed in all tissues tested, including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas Highest levels in heart, pancreas and placenta. Highly expressed in several cancers. Preferentially expressed in squamous cell carcinoma versus adenocarcinoma in non-small cell lung cancer

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