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Anti-API5 Antibody

Catalog # AP50983

Product Information

Application	WB, IHC
Primary Accession	Q9BZZ5
Reactivity	Human, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59005

Additional Information

Gene ID	8539
Other Names	Apoptosis inhibitor 5; API-5; Antiapoptosis clone 11 protein; AAC-11; Cell migration-inducing gene 8 protein; Fibroblast growth factor 2-interacting factor; FIF; Protein XAGL
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human API5. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

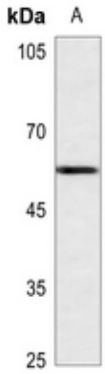
Protein Information

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

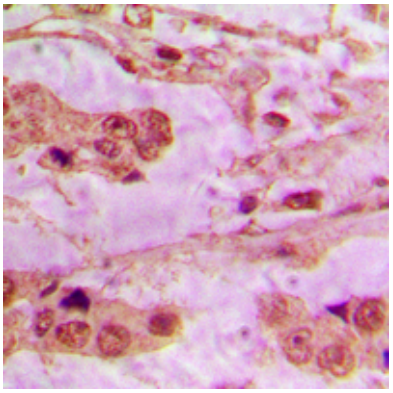
References

Tewari M.,et al.Cancer Res. 57:4063-4069(1997).
Gianfrancesco F.,et al.Cytogenet. Cell Genet. 84:164-166(1999).
Van den Berghe L.,et al.Mol. Endocrinol. 14:1709-1724(2000).
Kim J.W.,et al.Submitted (JUN-2003) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of API5 expression in A549 (A) whole cell lysates. (Predicted band size: 59 kD; Observed band size: 58 kD)



Immunohistochemical analysis of API5 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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