



API5 Polyclonal Antibody

Catalog No	YP-Ab-00301
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	API5
Protein Name	Apoptosis inhibitor 5
Immunogen	The antiserum was produced against synthesized peptide derived from human API-5. AA range:421-470
Specificity	API5 Polyclonal Antibody detects endogenous levels of API5 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	API5; MIG8; 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
Observed Band	58kD
Cell Pathway	Nucleus . Cytoplasm . Mainly nuclear. Can also be cytoplasmic.; [Isoform 3]: Cytoplasm.
Tissue Specificity	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.
Function	alternative products:Additional isoforms seem to exist,domain:Two regions, an N-terminal (aa 96-107) and a C-terminal (aa 274-311) are required for binding FGF2.,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.,sequence caution:Translation N-terminally shortened.,similarity:Belongs to the API5 family.,subcellular location:Mainly nuclear. Can also be cytoplasmic.,subunit:Homooligomer. Interacts with FGF2 and ACIN1.,tissue specificity:Expressed in all tissues tested, including heart,



brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Highest levels in heart, pancreas and placenta. Highly expres

Background

This gene encodes an apoptosis inhibitory protein whose expression prevents apoptosis after growth factor deprivation. This protein suppresses the transcription factor E2F1-induced apoptosis and also interacts with, and negatively regulates Acinus, a nuclear factor involved in apoptotic DNA fragmentation. Its depletion enhances the cytotoxic action of the chemotherapeutic drugs. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011],

matters needing attention

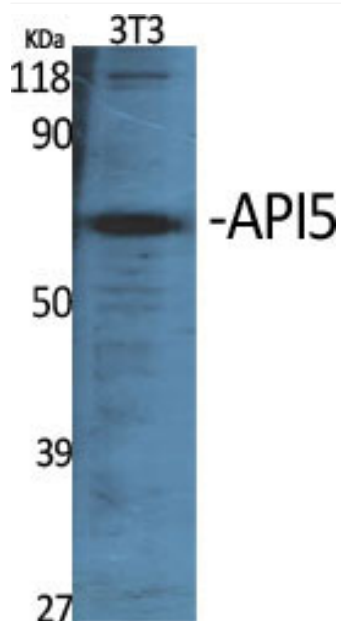
Avoid repeated freezing and thawing!

Usage suggestions

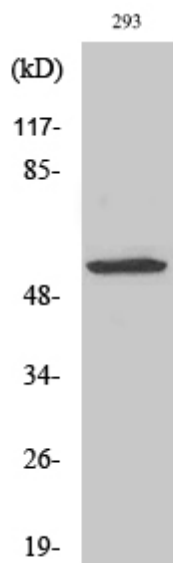
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



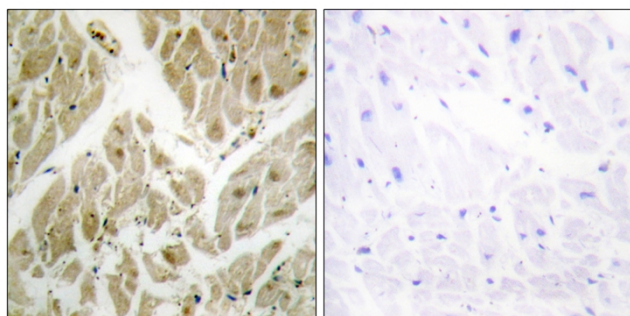
Products Images



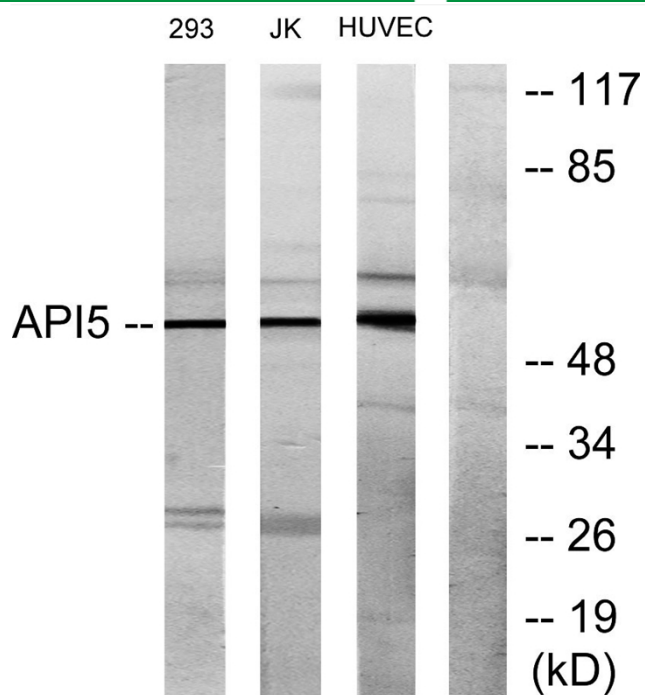
Western Blot analysis of various cells using API5
Polyclonal Antibody diluted at 1:1000



Western Blot analysis of HuvEc cells using API5
Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded
human heart tissue, using API-5 Antibody. The picture
on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293, Jurkat, and HUVEC cells, using API-5 Antibody. The lane on the right is blocked with the synthesized peptide.