

API5 Polyclonal Antibody

Catalog No :	YT0264
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	API5
Gene Name :	API5
Protein Name :	Apoptosis inhibitor 5
Human Gene Id :	8539
Human Swiss Prot No :	Q9BZZ5
Mouse Gene Id :	11800
Mouse Swiss Prot No :	O35841
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
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 58kD

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],

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

Subcellular Location : Nucleus . Cytoplasm . Mainly nuclear. Can also be cytoplasmic.; [Isoform 3]: Cytoplasm.

Expression : 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.

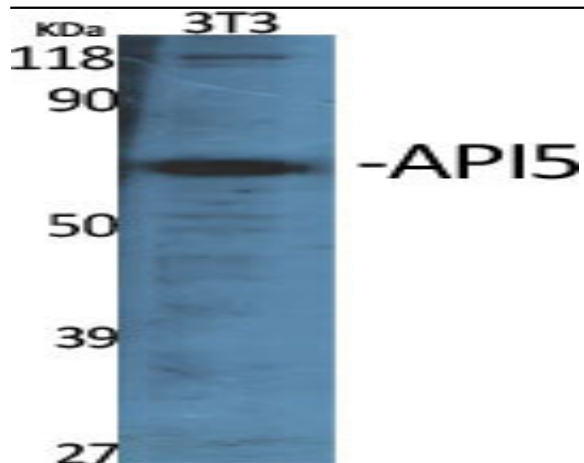
Sort : 2129

No4 : 1

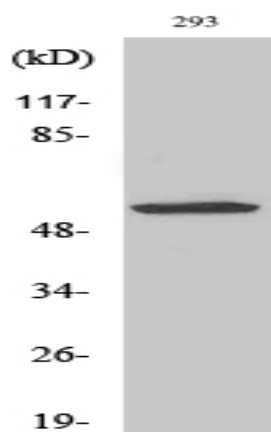
Host : Rabbit

Modifications : Unmodified

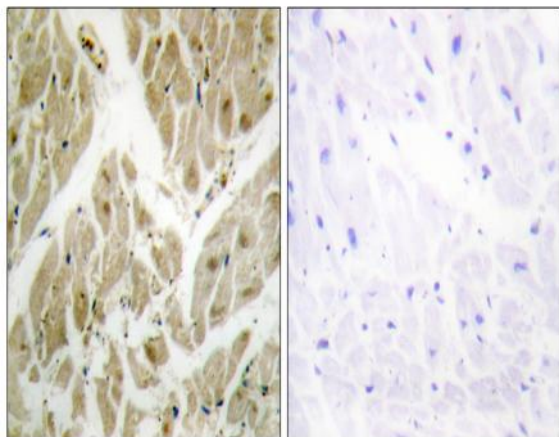
Products Images



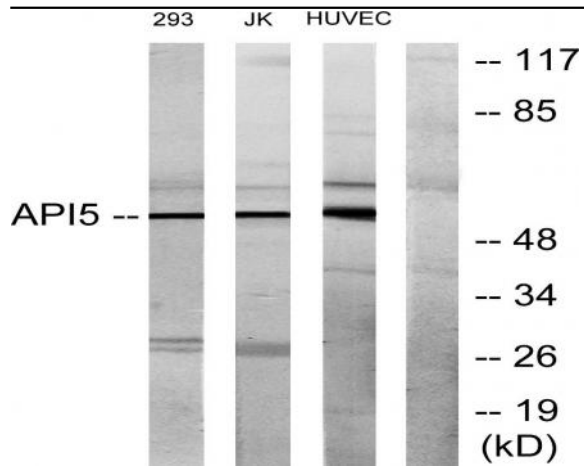
Western Blot analysis of various cells using API5 Polyclonal Antibody diluted at 1:1000



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.