

API5 Rabbit pAb

CatalogNo: YT0264

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, IHC, IF, ELISA

MW

- 58kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:20000

IF 1:50-200

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human API-5. AA range: 421-470

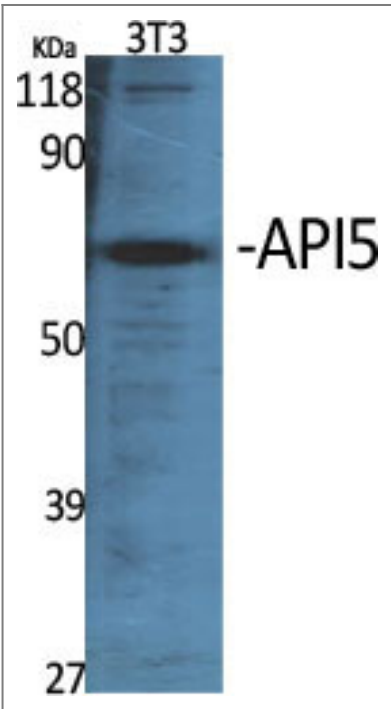
Specificity

API5 Polyclonal Antibody detects endogenous levels of API5 protein.

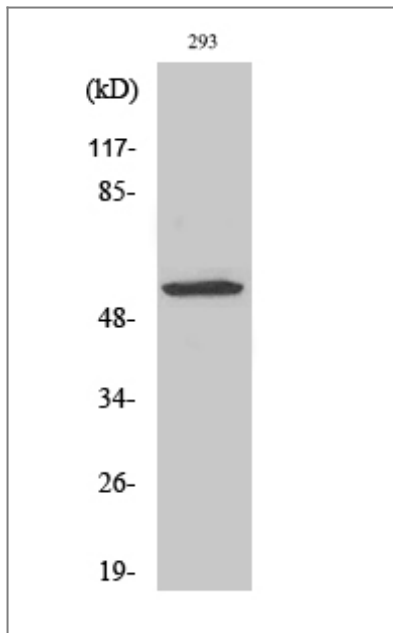
Target Information

Gene name	API5		
Protein Name	Apoptosis inhibitor 5		
	Organism	Gene ID	UniProt ID
	Human	8539 ;	Q9BZZ5 ;
	Mouse	11800 ;	O35841 ;
Cellular Localization	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	<p>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 expressed in several cancers. Preferentially expressed in squamous cell carcinoma versus adenocarcinoma in non-small cell lung cancer.,</p>		

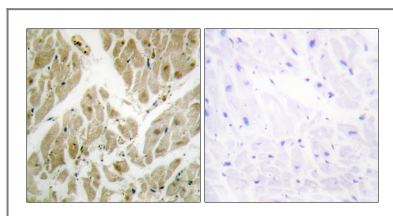
| Validation Data



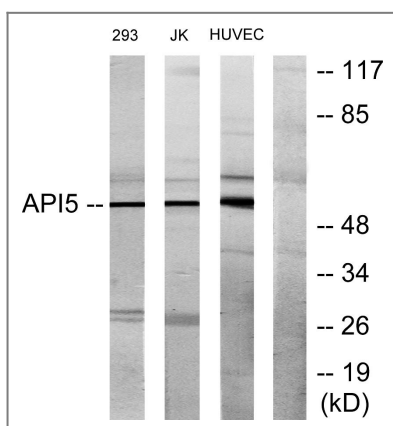
Western Blot analysis of various cells using API5 Polyclonal Antibody diluted at 1:1000



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.

Contact information

Orders: order.cn@immunoway.com
 Support: support.cn@immunoway.com
 Telephone: 400-8787-807(China)
 Website: <http://www.immunoway.com.cn>
 Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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API5 Rabbit pAb