

**Anti-Apoptosis Inhibitor 5 Antibody**  
**Catalog # ABO10504****Specification**

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**Anti-Apoptosis Inhibitor 5 Antibody - Product Information**

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	<a href="#">Q9BZZ5</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Apoptosis inhibitor 5(API5) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Apoptosis Inhibitor 5 Antibody - 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, API5

**Calculated MW**

59005 MW KDa

**Application Details**

Immunocytochemistry , 0.5-1 µg/ml, Human, Mouse<br>Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Rat, Human, Mouse<br>Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Subcellular Localization**

Nucleus . Cytoplasm . Mainly nuclear. Can also be cytoplasmic.

**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. .

**Protein Name**

Apoptosis inhibitor 5(API-5)

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Apoptosis inhibitor 5(487-504aa KYSSNLGNFNYSLSQGK)(b), different from the related mouse sequence by one amino acid.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the API5 family.

**Anti-Apoptosis Inhibitor 5 Antibody - 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

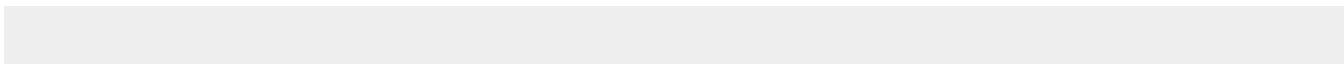
**Tissue Location**

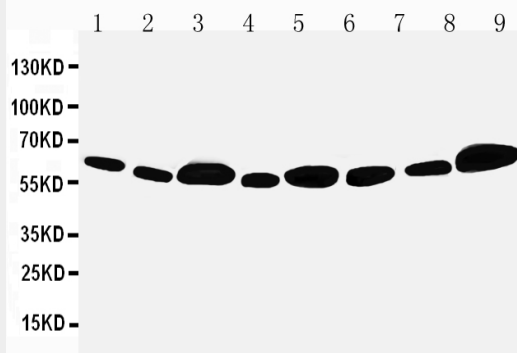
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**Anti-Apoptosis Inhibitor 5 Antibody - Protocols**

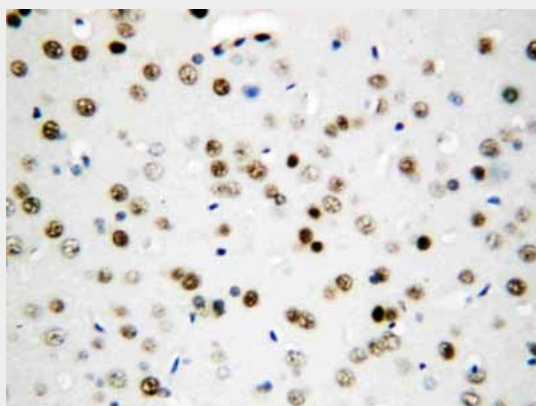
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

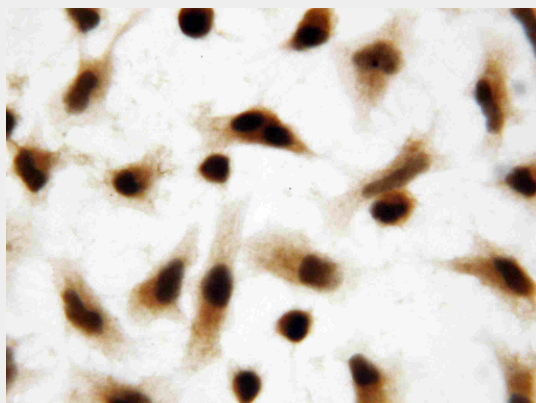
**Anti-Apoptosis Inhibitor 5 Antibody - Images**



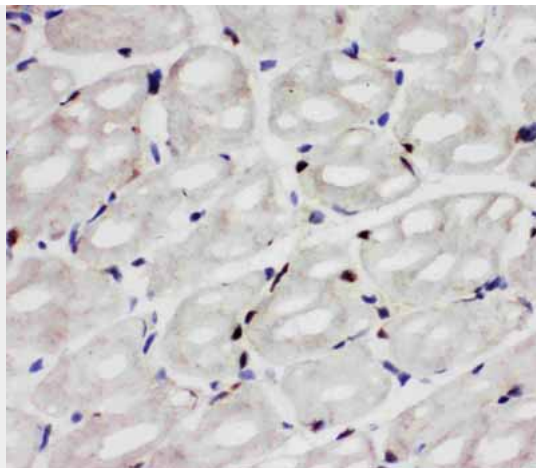
Anti-Apoptosis inhibitor 5 antibody, ABO10504, Western blotting  
Lane 1: Rat Cardiac Muscle Tissue Lysate  
Lane 2: Rat Brain Tissue Lysate  
Lane 3: Rat Testis Tissue Lysate  
Lane 4: Rat Placenta Tissue Lysate  
Lane 5: MCF-7 Cell Lysate  
Lane 6: HELA Cell Lysate  
Lane 7: CEM Cell Lysate  
Lane 8: SMMC Cell Lysate  
Lane 9: COLO320 Cell Lysate



Anti-Apoptosis inhibitor 5 antibody, ABO10504, IHC(P)  
IHC(P): Rat Brain Tissue



Anti-Apoptosis inhibitor 5 antibody, ABO10504, ICC  
ICC: HELA Cell



Anti-Apoptosis inhibitor 5 antibody, ABO10504, IHC(F)IHC(F): Rat Cardiac Muscle Tissue

### **Anti-Apoptosis Inhibitor 5 Antibody - Background**

Many growth factors and cytokines act as cellular survival factors by preventing programmed cell death (apoptosis). Apoptosis inhibitor 5 (API5) is an antiapoptotic factor which may have a role in protein assembly. The API5 gene is located on chromosome 11p12 based on an alignment of the API5 sequence with the genomic sequence. It is a critical determinant of E2F1-induced apoptosis, acting downstream of E2F to suppress E2F-dependent apoptosis without generally blocking E2F-dependent transcription.