

Anti-Apoptosis Inhibitor 5 Antibody

Catalog # ABO10504

Product Information

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	Q9BZZ5
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.

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
Application Details	Immunocytochemistry , 0.5-1 μ g/ml, Human, Mouse Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Rat, Human, Mouse Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Rat, Mouse
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. .
Source	Eukaryota
Protein Name	Apoptosis inhibitor 5(API-5)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human

Apoptosis inhibitor 5(487-504aa KYSSNLGNFNYSRLQGK)(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.

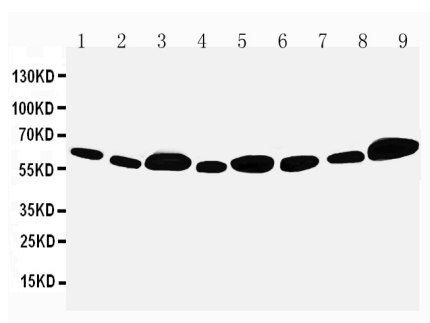
Protein Information

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

Background

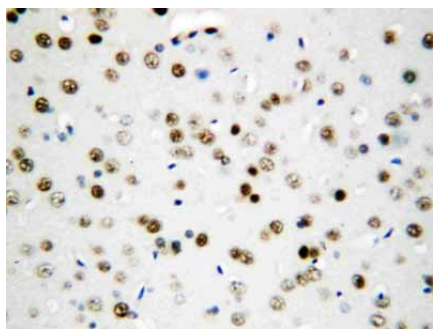
Many growth factors and cytokines act as cellular survival factors by preventing programmed cell death(apoptosis). Apoptosis inhibitor 5(API5) is an antiapoptotic factor which may have a role in protein assembly. The API5 gene to chromosome 11p12 based on an alignment of the API5 sequence with the genomic 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.

Images

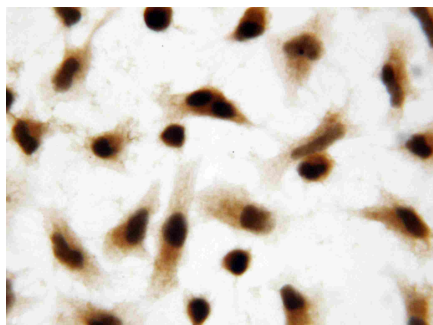


Anti-Apoptosis inhibitor 5 antibody, ABO10504, Western blotting
Lane 1: Rat Cardiac Muscle Tissue Lysate
Lane 2: Rat Brain Tissue Lysate
Lane 3: Rat Testis Tissue Lysate
Lane 4: Rat Placenta Tissue Lysate
Lane 5: MCF-7 Cell Lysate
Lane 6: HELA Cell Lysate
Lane 7: CEM Cell Lysate
Lane 8: SMMC Cell Lysate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

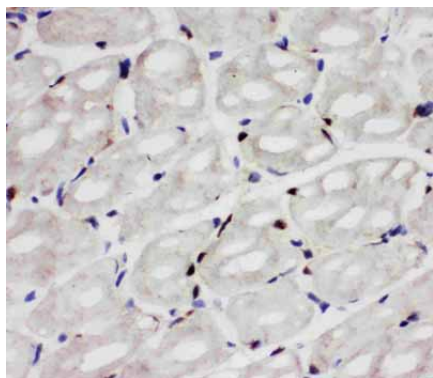
Anti-Apoptosis inhibitor 5 antibody, ABO10504,
IHC(P)IHC(P): Rat Brain Tissue



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



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



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.