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**Product Name: Caspase-4 Rabbit Polyclonal Antibody****Catalog #: APRab07973**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
<b>Molecular Weight</b>	45kDa

**Antigen Information**

<b>Gene Name</b>	CASP4
<b>Alternative Names</b>	CASP4; ICH2; Caspase-4; CASP-4; ICE(rel)-II; Protease ICH-2; Protease TX
<b>Gene ID</b>	837.0
<b>SwissProt ID</b>	P49662
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Caspase-4. AA range:75-124

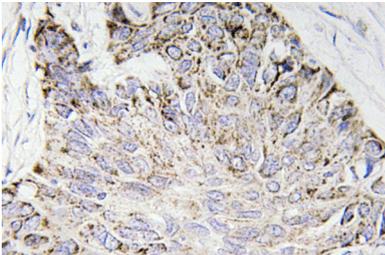
**Background**

This gene encodes a protein that is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of

caspace plays a central role in the execution-phase of cell apoptosis. Caspace exists as inactive proenzymes composed of a prodomain and a large and small protease subunit. Activation of caspace requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This caspace is able to cleave and activate its own precursor protein, as well as caspace 1 precursor. When overexpressed, this gene induces cell apoptosis. Alternative splicing results in transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008],catalytic activity:Strict requirement for Asp at the P1 position. It has a preferred cleavage sequence of Tyr-Val-Ala-Asp-|- but also cleaves at Asp-Glu-Val-Asp-|-.,function:Involved in the activation cascade of caspace responsible for apoptosis execution. Cleaves caspace-1.,PTM:The two subunits are derived from the precursor sequence by an autocatalytic mechanism or by cleavage by Caspace-8.,similarity:Belongs to the peptidase C14A family.,similarity:Contains 1 CARD domain.,subunit:Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a small and a large subunit.,tissue specificity:Widely expressed, with highest levels in spleen and lung. Moderate expression in heart and liver, low expression in skeletal muscle, kidney and testis. Not found in the brain.,

## Research Area

## Image Data



Immunohistochemistry analysis of Caspace-4 antibody in paraffin-embedded human lung carcinoma tissue.