

Cleaved-Caspase-4 p20 (Q81) Polyclonal Antibody

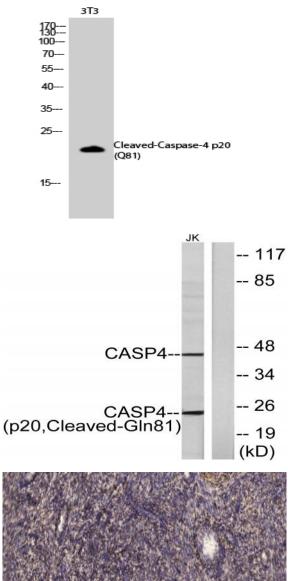
Catalog No :	YC0028
Reactivity :	Human
Applications :	WB;IHC;IF;ELISA
Target :	Caspase-4
Fields :	>>Neutrophil extracellular trap formation;>>NOD-like receptor signaling pathway;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Salmonella infection
Gene Name :	CASP4
Protein Name :	Caspase4
Human Gene Id :	837
Human Swiss Prot	P49662
No : Mouse Swiss Prot	P70343
No : Immunogen :	The antiserum was produced against synthesized peptide derived from human Caspase 4. AA range:62-111
Specificity :	Cleaved-Caspase-4 p20 (Q81) Polyclonal Antibody detects endogenous levels of fragment of activated Caspase-4 p20 protein resulting from cleavage adjacent to Q81.
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: 1:40000 IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity- chromatography using epitope-specific immunogen.



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Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	43kD,22kD
Background :	This gene encodes a protein that is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes composed of a prodomain and a large and small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This caspase is able to cleave and activate its own precursor protein, as well as caspase 1 precursor. When overexpressed, this gene induces cell apoptosis. Alternative splicing results in transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008],
Function :	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 caspases responsible for apoptosis execution. Cleaves caspase-1.,PTM:The two subunits are derived from the precursor sequence by an autocatalytic mechanism or by cleavage by Caspase-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.,
Subcellular Location :	Cytoplasm, cytosol . Endoplasmic reticulum membrane ; Peripheral membrane protein ; Cytoplasmic side . Mitochondrion . Inflammasome . Secreted . Predominantly localizes to the endoplasmic reticulum (ER). Association with the ER membrane requires TMEM214 (PubMed:15123740). Released in the extracellular milieu by keratinocytes following UVB irradiation (PubMed:22246630)
Expression :	Widely expressed, including in keratinocytes and colonic and small intestinal epithelial cells (at protein level). Not detected in brain.

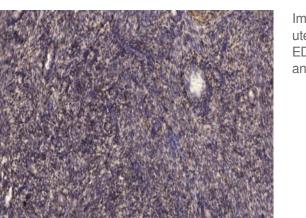
Products Images





Western Blot analysis of 3T3 cells using Cleaved-Caspase-4 p20 (Q81) Polyclonal Antibody diluted at 1:2000

Western blot analysis of lysates from Jurkat cells, using Caspase 4 (p20,Cleaved-Gln81) Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human uterus. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).