

Anti-Caspase-12 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human)
Molecular Weight:	Theoretical: 46 kDa. Actual: 46 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-Caspase-12 Polyclonal Antibody, Unconjugated (TMAB-00284) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

2. Sample:

Lane 1: Cerebrum (Mouse) Lysate at 40 µg

Lane 2: Heart (Mouse) Lysate at 40 µg

Lane 3: Kidney (Mouse) Lysate at 40 µg

Primary: Anti-Caspase-12 (TMAB-00284) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

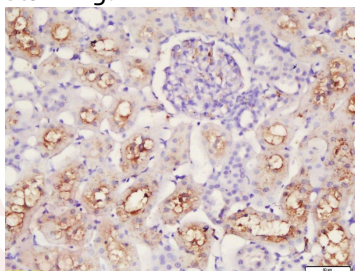
Predicted band size: 45/52 kDa

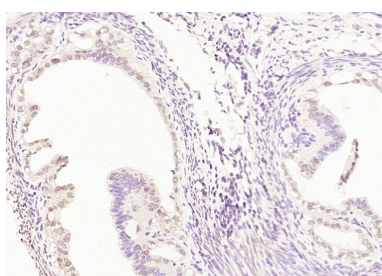
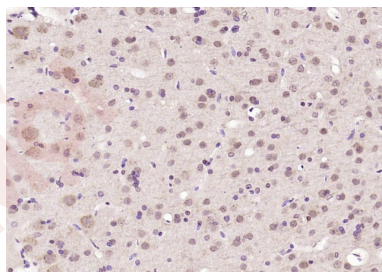
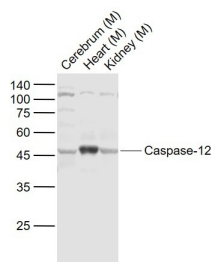
Observed band size: 46 kDa

Verified Activity:

3. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Caspase-12) Polyclonal Antibody, Unconjugated (TMAB-00284) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded (mouse fallopian tube); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Caspase-12) Polyclonal Antibody, Unconjugated (TMAB-00284) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.





Application: IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: the middle of human Caspase-12

Antigen Species: Human

Gene ID: 100506742

Uniprot ID: Q6UXS9

Synonyms: OTTHUMP00000207031; CASP12P1; OTTHUMP00000207026; CASPC; Apoptosis related cysteine protease; OTTHUMP00000207032; OTTHUMP00000219058; casp12; OTTHUMP00000207028; Caspase12; UNQ9415; caspase 12(gene/pseudogene); CASP 12; Caspase 12 pseudogene 1

Biology Area: Caspases, Metabolism, Caspases, Caspases, Other proteases, Apoptosis, Proteases

Research Background

Caspases are cysteine proteases that cleave C-terminal aspartic acid residues on their substrate molecules. This gene is most highly related to members of the ICE subfamily of caspases that process inflammatory cytokines. In rodents, the homolog of this gene mediates apoptosis in response to endoplasmic reticulum stress. However, in humans this gene contains a polymorphism for the presence or absence of a premature stop codon. The majority of human individuals have the premature stop codon and produce a truncated non-functional protein. The read-through codon occurs primarily in individuals of African descent and carriers have endotoxin hypo-responsiveness and an increased susceptibility to severe sepsis. Several alternatively spliced transcript variants have been noted for

this gene. [provided by RefSeq, Feb 2011]

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