Data Sheet (Cat.No.TMAB-03655)

Anti-Caspase-12 Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse
Molecular Weight:	Theoretical: 38 kDa. Actual: 46 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Lane 1: Stomach (Mouse) Lysate at 40 µg Lane 2: Liver (Mouse) Lysate at 40 µg Primary: Anti-Caspase-12 (TMAB-03655) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45/52 kD Observed band size: 46 kD 2. Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Caspase-12) Polyclonal Antibody, Unconjugated (TMAB-03655) at 1: 400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. 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: human Caspase-12
Antigen Species:	Human
Gene ID:	100506742
Uniprot ID:	Q6UXS9

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]

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481