

## Anti-Caspase-10 Polyclonal Antibody 3

### Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 22/59 kDa. Actual: 50 kDa.
Purification:	Protein A purified

### Applications

Verified Activity:	<p>1. Sample: K562 (Human) Cell Lysate at 30 µg Jurkat (Human) Cell Lysate at 30 µg Primary: Anti-Caspase-10 (TMAB-03653) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 22/59 kD Observed band size: 59 kD</p> <p>2. Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); 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-10) Polyclonal Antibody, Unconjugated (TMAB-03653) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.</p> <p>3. Sample: Lane 1: Human Jurkat cell lysates Lane 2: Human Huvec cell lysates Lane 3: Human Molt-4 cell lysates Lane 4: Human Hepg2 cell lysates Lane 5: Human K562 cell lysates Primary: Anti-Caspase-10 (TMAB-03653) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 22/59 kDa Observed band size: 50 kDa</p>
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-10  
Antigen Species: Human  
Gene ID: 843  
Uniprot ID: Q92851

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### Research Background

Caspases are a family of intracellular proteases that mediate cell death and are the principal effectors of apoptosis. Caspase 10 (Mch4, ICE-LAP4, FLICE2) plays an important role in apoptosis induced by a variety of inducers such as TNF alpha and Anti-Fas antibody. It is a large prodomain caspase classified together with caspases 2, 8, and 9 as a signaling caspase. Four isoforms of caspase 10 (caspase 10a, 10b, 10c, and 10d) having the same prodomain but different mature large and small subdomain, have been described. Caspase 10 contains two death domains (DED) involved in linking to the death effector domain of the adapter protein FADD and recruiting the complex to TNFR1 and Fas. The inactive procaspase 10 is variably expressed in many tissues and cell lines as a cytosolic protein. The mature form of caspase 10 comprises two subunits, p23/p17 (splice isoforms) and p12. Interestingly, a caspase 9-dependent processing of caspase 10 by caspase 6 in cell-free extracts has recently been suggested. Caspase 10 can cleave and activate caspases 3, 4, 6, 7, 8, and 9. This is followed by cleavage of numerous key proteins, including the nuclear protein PARP.

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