



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

RABBIT ANTI HUMAN CASPASE7 (C-TERMINAL)

With HRP-conjugated Secondary Antibody

Catalog No.
DS-PB-00381

Target Species
Human

Isotype
IgG

Preparation

Immunogen: A 16 amino acid peptide from human Caspase7 carboxy-terminus

Purification: Antisera to human Caspase7 (CT) were raised by repeated immunizations of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.

Formulation

Product Type: Polyclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.02% Sodium Azide (NaN_3)

Approx. Protein Concentration: IgG concentration 1.0 mg/ml

Specificity

DS-PB-00381 recognizes an epitope within the C-terminal region (CT) of Caspase7, a 35kDa cysteine protease, otherwise known as ICE like Apoptotic Protease 3 (ICELAP3).

Caspase7, a member of the ICE/Ced3 subfamily, is an executioner caspase which undergoes proteolytic cleavage of its precursor to form active p12 and p20 subunits. Evidence that activation of Caspase7 occurs during cell death induced by the cytokine death receptors Fas/APO1 and the receptor of tumor necrosis factor (TNFR1), coupled with the fact that granzymeB activated Caspase7 cleaves the nuclear enzyme poly (ADPribose) polymerase (PARP), suggests an important role for Caspase7 in both cytokinemediated and GranzymeB mediated apoptosis pathways.

Species Crossreactivity: Mouse and Rat *Antibody reactivity and working conditions may vary between species.

Storage

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 18 months from date of shipment

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Western Blotting	•			1.0ug/ml - 2.0ug/ml
IHC - Paraffin	•			2.0ug/ml
IHC – Frozen (1,2)			•	
Immunoprecipitation			•	
Flow Cytometry			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by the user.

- (1) Immunohistology This product does not require protein digestion pretreatment of paraffin sections eg. Trypsin or pronase prior to staining. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.
(2) Histology Positive Control Tissue: Skeletal muscle tissue

Secondary Antibody Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

References

- Duan, H. *et al.* (1996) ICE-LAP3, a novel mammalian homologue of the *Caenorhabditis elegans* cell death protein Ced-3 is activated during Fas- and tumor necrosis factor-induced apoptosis. *J. Biol Chem.* 271: 1621 - 1625.
- Juan, T.S. *et al.* (1997) Identification and mapping of Casp7, a cysteine protease resembling CPP32 beta, interleukin-1 beta converting enzyme, and CED-3. *Genomics.* 40: 86-93.
- Cohen, G.M. (1997) Caspases: the executioners of apoptosis. *J. Biochem.* 326: 1 - 16.

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