Caspase 3 (CPP32) Ab-4
Rabbit Polyclonal Antibody

**Description:** Caspase 3 is ubiquitously expressed and like other caspases is synthesized as an inactive (32kDa) proenzyme. Upon activation, Caspase 3 is cleaved at Asp28-Ser29 and Asp175-Ser176 thereby generating two subunits of 17kDa and 12kDa, respectively. Recent studies have implicated that Caspase 3 is associated with the induction of apoptosis. Activation of Caspase 3 occurs in response to variety of apoptotic inducers including Fas mediated apoptosis.

**Mol. Wt. of Antigen:** 32kDa

**Epitope:** Not determined

**Species Reactivity:** Human, Mouse, Rat, Monkey, Rabbit, Hamster, Cow, Sheep, Pig, Dog. Others-not tested.

**Immunogen:** Recombinant full length human caspase 3 protein.

**Applications and Suggested Dilutions:**
- Western Blotting (Ab 2.5-5µg/ml for 2hrs at RT)
- Immunoprecipitation (Denatured verified)
  (Use Protein A) (Ab 10µg/mg protein lysate)
- Immunohistology (Formalin/paraffin)
  (Ab 5-10µg/ml for 30 min at RT; Ab-3 is better)
  * [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Jurkat cells. Tonsil.

**Cellular Localization:** Predominantly Cytoplasmic with some nuclear staining

**Supplied As:**
Total IgG purified from rabbit anti-serum by Protein A chromatography. Prepared at 1mg/ml in 10mM PBS, pH 7.4, with 0.2% BSA & 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

**Storage and Stability:**
Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

**Suggested References:**

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dianova GmbH
Warburgstr. 45 ● 20354 Hamburg
Telefon (040) 45067-0 ● Telefax (040) 45067-490 ● www.dianova.de
Caspase 3 (CPP32) Ab-4
Rabbit Polyclonal Antibody
Cat. #DLN-12107, -12108, or -12106 (0.1ml, 0.5ml, or 1.0ml at 1.0mg/ml) (Purified Ab with BSA and Azide)
Cat. #DLN-12109 or -12110 (0.5ml or 1.0ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #DLN-12104, -12105, or -12103 (0.1ml, 0.5ml, or 1.0ml at 1.0mg/ml) (Biotin-labeled Ab with BSA and Azide)

Limitations and Warranty:
Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:
This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

For Research Use Only

Additional Suggested References:
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