

Product datasheet for **TA300366**

Caspase 3 (CASP3) Rabbit Monoclonal Antibody [Clone ID: E87]

Product data:

Product Type:	Primary Antibodies
Clone Name:	E87
Applications:	FC, IHC, WB
Recommended Dilution:	WB: 1:5000; IHC-P: 1:25 - 1:50; ICC: 1:25; FC: 1:1000; IP: 1:10
Reactivity:	Rat, Human (Does not react with: Mouse)
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues in p17 subunit of human Caspase-3 was used as immunogen. The antibody should recognize both pro-form (35kDa) and p17 cleaved-form of Caspase-3.
Formulation:	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	32 kDa
Gene Name:	caspase 3
Database Link:	NP_116786 Entrez Gene 12367 Mouse Entrez Gene 25402 Rat Entrez Gene 836 Human P42574
Background:	Caspases are a family of cytosolic aspartate-specific cysteine proteases involved in the initiation and execution of apoptosis. Caspase-3 (apopain, SCA-1, Yama and CPP32) is a member of the apoptosis execution functional group of caspases, and is either partially or totally responsible for the proteolytic cleavage of many key proteins during apoptosis, such as poly (ADP-ribose) polymerase (PARP) (1,2,3). Caspase-3 is a cytosolic protein found in cells as an inactive 32 kDa proenzyme. It is activated by proteolytic cleavage into two active subunits only when cells undergo apoptosis (3).



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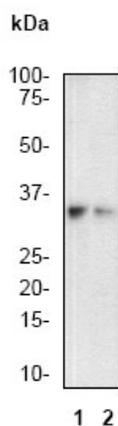
Synonyms: CPP32; CPP32B; SCA-1

Note: Does not react with Mouse

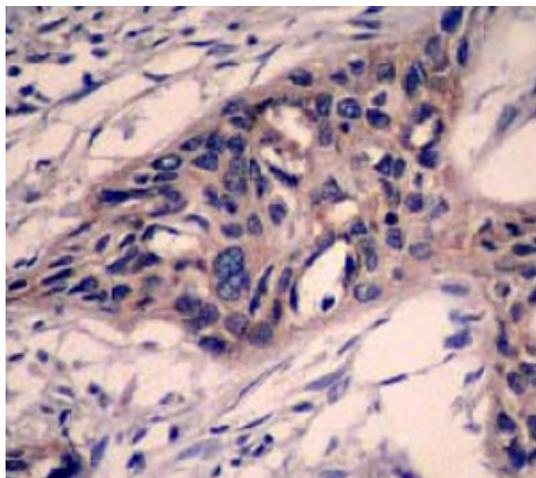
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protease

Protein Pathways: Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, Huntington's disease, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, p53 signaling pathway, Parkinson's disease, Pathways in cancer, Viral myocarditis

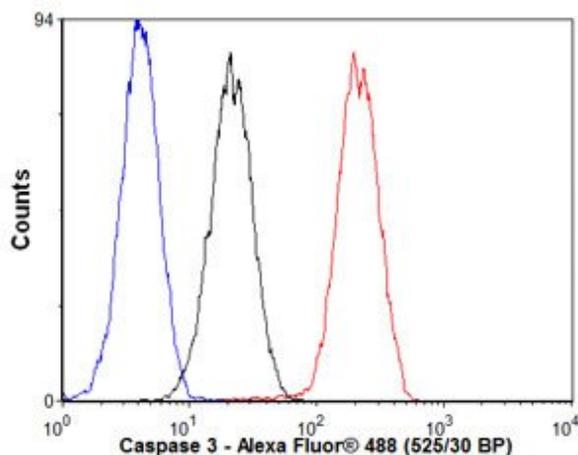
Product images:



Western blot - Caspase 3 antibody [E87]; All lanes : Anti-Caspase 3 [E87] antibody at 1/5000 dilution. Lane 1 : Untreated Jurkat cell lysate. Lane 2 : Jurkat cell lysate treated with Camptothecin. Predicted band size : 32 kDa. Observed band size : 35 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Caspase 3 antibody [E87]; Ab32351, at a 1/25 dilution, staining Caspase 3 in paraffin embedded human cervical carcinoma tissue by Immunohistochemistry.



Flow Cytometry - Anti-Caspase 3 antibody;
Overlay histogram showing Jurkat cells stained with TA300366 (red line). The secondary antibody used was Alexa Fluor 488 goat anti-rabbit IgG (H+L) at 1:2000. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1ug/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control.