

## Product datasheet for **TA813275S**

### Caspase 3 (CASP3) Mouse Monoclonal Antibody [Clone ID: OTI3A12]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3A12
Applications:	IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 29-219 of human CASP3 (NP_116786) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	31.4 kDa
Gene Name:	caspase 3
Database Link:	<a href="#">NP_116786</a> <a href="#">Entrez Gene 12367 Mouse</a> <a href="#">Entrez Gene 25402 Rat</a> <a href="#">Entrez Gene 836 Human</a> <a href="#">P42574</a>



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**Background:**

This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein. [provided by RefSeq, Jul 2008]

**Synonyms:**

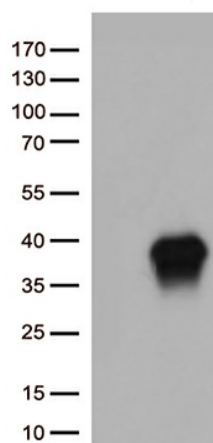
CPP32; CPP32B; SCA-1

**Protein Families:**

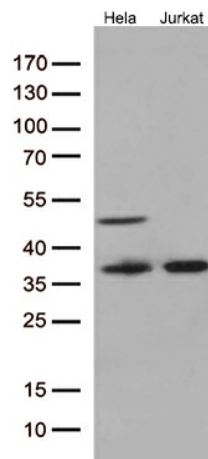
Druggable Genome, ES Cell Differentiation/IPS, Protease

**Protein Pathways:**

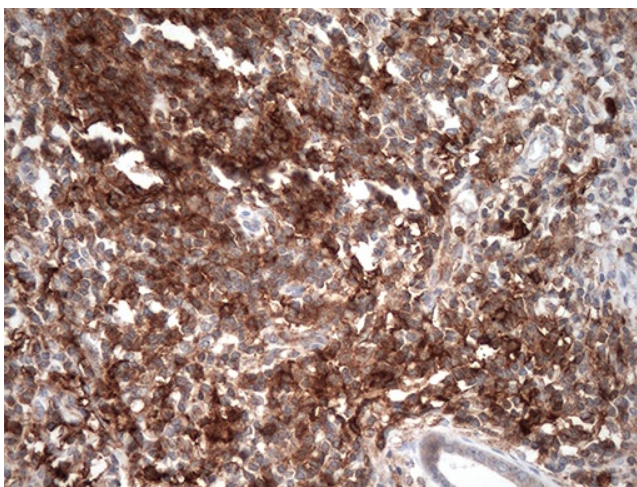
Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, Huntington's disease, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, p53 signaling pathway, Parkinson's disease, Pathways in cancer,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

**Product images:**

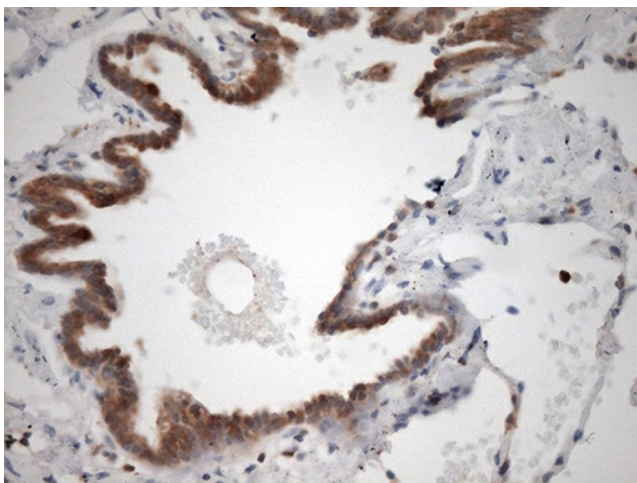
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CASP3 ([RC204444], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CASP3 (1:500).



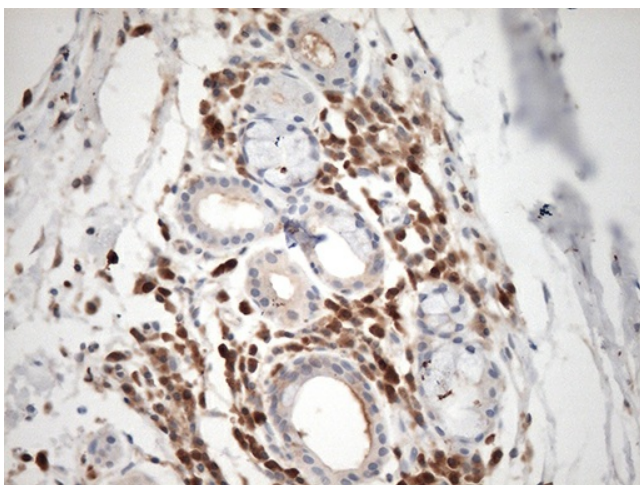
Western blot analysis of extracts (35ug) from 2 cell lines lysates by using anti-CASP3 monoclonal antibody (1:500).



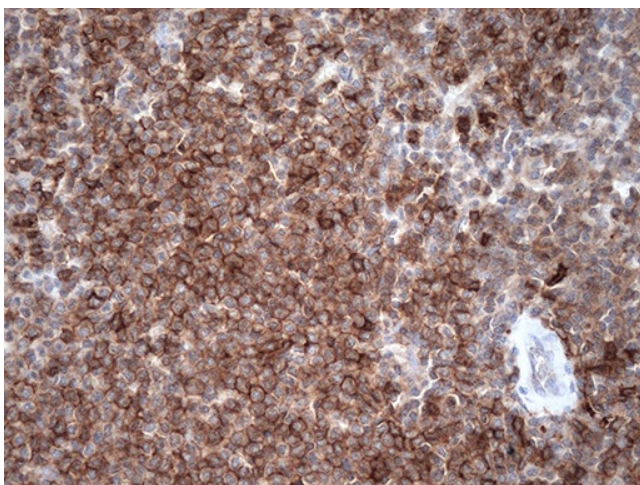
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-CASP3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA813275]) (1:500)



Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-CASP3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA813275]) (1:500)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-CASP3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA813275]) (1:500)



Immunohistochemical staining of paraffin-embedded Human spleen tissue within the normal limits using anti-CASP3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA813275]) (1:500)