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Product datasheet for TA336388

Caspase 8 (CASP8) Mouse Monoclonal Antibody [Clone ID: 90A992]

Product data:

Product Type:	Primary Antibodies
Clone Name:	90A992
Applications:	CyTOF-ready, FC, IHC, Simple Western, WB
Recommended Dilution:	Simple Western: 1:100, Immunohistochemistry-Paraffin: 4 ug/ml, Flow Cytometry: 0.1-0.5 ug/ml, Western Blot: 0.5-2 ug/ml, Immunohistochemistry, CyTOF-ready
Reactivity:	Human, Primate
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Amino acids PVETDSEEQP of human Caspase-8 were used as the immunogen for this antibody.
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	caspase 8
Database Link:	NP_203519 Entrez Gene 841 Human Q14790

View online »

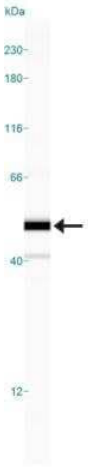
Background: Caspases are a family of cysteine proteases that are key mediators of programmed cell death or apoptosis. The precursor form of all caspases is composed of a prodomain, and large and small catalytic subunits. The active forms of caspases are generated by several stimuli including ligand-receptor interactions, growth factor deprivation and inhibitors of cellular functions. All known caspases require cleavage adjacent to aspartates to liberate one large and one small subunit, which associate into a2b2 tetramer to form the active enzyme. Caspase-8 (FLICE) forms a direct link between the activation of CD95 and the caspase pathway. Overexpression of Caspase-8 induces apoptosis, which can be blocked by inhibitors specific for the ICE family.

Synonyms: ALPS2B; CAP4; Casp-8; FLICE; MACH; MCH5

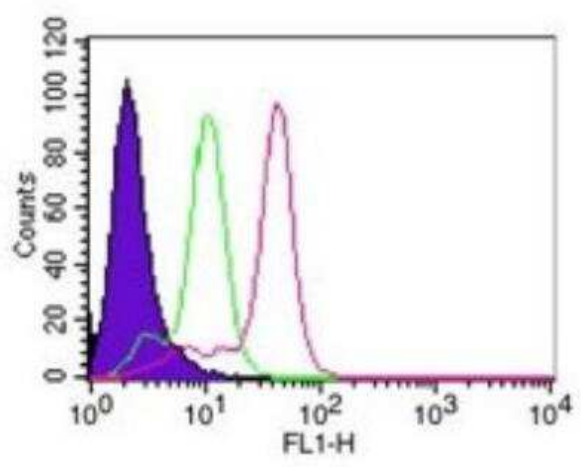
Protein Families: Druggable Genome, Protease

Protein Pathways: Alzheimer's disease, Apoptosis, Huntington's disease, NOD-like receptor signaling pathway, p53 signaling pathway, Pathways in cancer, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway, Viral myocarditis

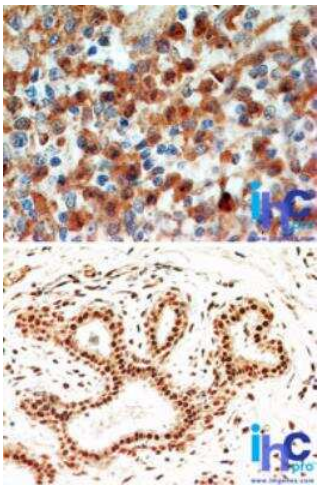
Product images:



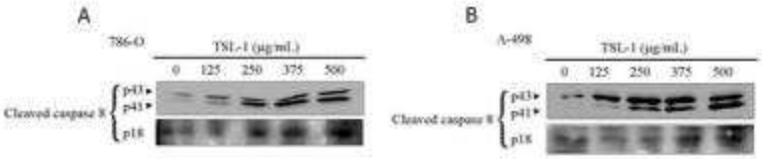
Simple Western: Caspase-8 Antibody (90A992) TA336388 - Simple Western lane view shows a specific band for Caspase 8 in 0.5 mg/ml of Hek293 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



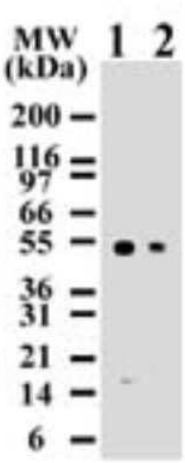
Flow Cytometry: Caspase-8 Antibody (90A992) TA336388 - Flow cytometric analysis of Caspase-8 in HeLa cells using 0.1 ug of Caspase-8 antibody. Shaded histogram represents cells without antibody; green represents isotype control; red represents Caspase-8 antibody. Goat anti-mouse IgG-FITC secondary antibody was used for this test. IC-Flow (Intracellular Staining Flow Cytometry Kit) was used to fix and prepare the cells for staining.



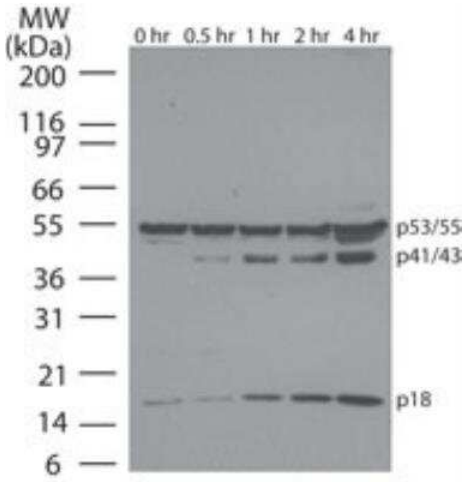
Immunohistochemistry-Paraffin: Caspase-8 Antibody (90A992) TA336388 - Formalin-fixed, paraffin-embedded human spleen (top) and breast (bottom) stained with Caspase-8 antibody at 4 ug/ml. Localization can be cytoplasmic and nuclear. Cancer/normal adjacent tissue array was used for this test. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



Western Blot: Caspase-8 Antibody (90A992) TA336388 - Caspase-8 expression in 786-O and A-498 cellsClose



Western Blot: Caspase-8 Antibody (90A992) TA336388 - Analysis using the Biotin conjugate of TA336388. Detection of human Caspase-8 using Jurkat lysates with NB100-55786 at 2 ug/ml (lane 1) and 0.5 ug/ml (lane 2) dilution. NB100-55786 only detects 55 kDa Caspase-8 in Jurkat cells.



Western Blot: Caspase-8 Antibody (90A992) TA336388 - Western blot analysis of Caspase-8 in Jurkat cells using Caspase-8 antibody at 1 ug/ml. Cells were treated with 2 uM staurosporine for different time periods. Caspase-8 activation is detected in western blots by the presence of Caspase-8 cleavage fragments. The antibody detected both pro (full length) and active (cleaved) Caspase-8, depending on the treatment time points. A basal level of endogenously cleaved Caspase-8 can be see in untreated Jurkat cells. Goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.