

# Human CASP8 Knockdown Cell Lysate

**Cat. No.** CASP8-086HKCL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	WB-validated CASP8 Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>This gene encodes 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 composed of a prodomain, a large protease subunit, and a small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This protein is involved in the programmed cell death induced by Fas and various apoptotic stimuli. The N-terminal FADD-like death effector domain of this protein suggests that it may interact with Fas-interacting protein FADD. This protein was detected in the insoluble fraction of the affected brain region from Huntington disease patients but not in those from normal controls, which implicated the role in neurodegenerative diseases. Many alternatively spliced transcript variants encoding different isoforms have been described, although not all variants have had their full-length sequences determined.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	55 kDa
<b>Notes</b>	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa

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cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.

**Storage** Store at -20 centigrade.

**Concentration** Lot-specific

**Shipping** Blue Ice

**Components** 1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg CASP8 KD HeLa cell lysate

**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

**Lysate QC** RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

**Gene Name** [CASP8 caspase 8, apoptosis-related cysteine peptidase \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [CASP8](#)

**Synonyms**

CASP8; caspase 8, apoptosis-related cysteine peptidase; caspase 8, apoptosis related cysteine protease; caspase-8; Casp 8; FLICE; MACH; MCH5; FADD-like ICE; MACH-alpha-1/2/3 protein; apoptotic protease Mch-5; MACH-beta-1/2/3/4 protein; apoptotic cysteine protease; ICE-like apoptotic protease 5; MORT1-associated ced-3 homolog; FADD-homologous ICE/CED-3-like protease; caspase 8, apoptosis-related

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cysteine protease; CAP4; ALPS2B; Casp-8; FLJ17672; MGC78473;

**Gene ID**

841

**mRNA Refseq**

NM\_001080124

**Protein Refseq**

NP\_001073593

**MIM**

601763

**UniProt ID**

Q14790

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