

Human NCSTN Knockdown Cell Lysate

Cat. No. NCSTN-488HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated NCSTN Knockdown HT-1080 Cell Lysate
Species	Human
Source	HT-1080
Description	This gene encodes a type I transmembrane glycoprotein that is an integral component of the multimeric gamma-secretase complex. The encoded protein cleaves integral membrane proteins, including Notch receptors and beta-amyloid precursor protein, and may be a stabilizing cofactor required for gamma-secretase complex assembly. The cleavage of beta-amyloid precursor protein yields amyloid beta peptide, the main component of the neuritic plaque and the hallmark lesion in the brains of patients with Alzheimer's disease; however, the nature of the encoded protein's role in Alzheimer's disease is not known for certain. Mutations in this gene are associated with familial acne inversa. A pseudogene of this gene is present on chromosome 21. Alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.
Form	Cell-Tissue Lysis buffer
Molecular Mass	78 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HT-1080 cell lysate for use. For Western blotting, we recommend running wild-type and

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	knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HT-1080 cell lysate 1 vial of 100 µg NCSTN KD HT-1080 cell lysate
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Alzheimer's disease, Notch signaling pathway
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	NCSTN nicastrin [Homo sapiens (human)]
Official Symbol	NCSTN
Synonyms	NCSTN; nicastrin; APH2; KIAA0253; ATAG1874; anterior pharynx-defective 2; RP11-517F10.1;
Gene ID	23385
mRNA Refseq	NM_015331

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Protein Refseq	NP_056146
MIM	605254
UniProt ID	Q92542

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