

Human TSC2 Knockdown Cell Lysate

Cat. No. TSC2-312HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated TSC2 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene is a tumor suppressor gene that encodes the growth inhibitory protein tuberin. Tuberin interacts with hamartin to form the TSC protein complex which functions in the control of cell growth. This TSC protein complex negatively regulates mammalian target of rapamycin complex 1 (mTORC1) signaling which is a major regulator of anabolic cell growth. Mutations in this gene have been associated with tuberous sclerosis and lymphangioleiomyomatosis.
Form	Cell-Tissue Lysis buffer
Molecular Mass	201 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa 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 for two years.
Concentration	Lot-specific

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Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg TSC2 KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Insulin signaling pathway, mTOR signaling pathway, p53 signaling pathway
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	TSC2 tuberous sclerosis 2 [Homo sapiens (human)]
Official Symbol	TSC2
Synonyms	TSC2; tuberous sclerosis 2; TSC4; tuberin; LAM; tuberous sclerosis 2 protein; FLJ43106;
Gene ID	7249
mRNA Refseq	NM_000548
Protein Refseq	NP_000539
MIM	191092
UniProt ID	P49815

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