

# Human BMP6 Knockdown Cell Lysate

Cat. No. BMP6-074HKCL Lot. No. (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | WB-validated BMP6 Knockdown HeLa Cell Lysate   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | HeLa   |
| <b>Description</b>      | <p>This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates a wide range of biological processes including iron homeostasis, fat and bone development, and ovulation. Differential expression of this gene may be associated with progression of breast and prostate cancer. Mutations in this gene may be associated with iron overload in human patients.</p> |
| <b>Form</b>             | Cell-Tissue Lysis buffer   |
| <b>Molecular Mass</b>   | 57 kDa   |
| <b>Notes</b>            | <p>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.</p>  |

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|                         |   |
|-------------------------|---|
| <b>Storage</b>          | Store at -20 centigrade for two years.  |
| <b>Concentration</b>    | Lot-specific  |
| <b>Shipping</b>         | Blue Ice  |
| <b>Components</b>       | 1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg BMP6 KD HeLa cell lysate  |
| <b>Protein Families</b> | Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling pathway |
| <b>Protein Pathways</b> | Hedgehog signaling pathway, TGF-beta signaling pathway  |
| <b>Lysate QC</b>        | RT-qPCR; Western Blotting (WB)  |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | BMP6 bone morphogenetic protein 6 [ Homo sapiens (human) ]   |
| <b>Official Symbol</b> | BMP6   |
| <b>Synonyms</b>        | BMP6; bone morphogenetic protein 6; vegetal related growth factor (TGFB related), VGR; VGR1; BMP-6; VGR-1; VG-1-R; VG-1-related protein; Vg1-related sequence; vegetal-related (TGFB related) cytokine; vegetal related growth factor (TGFB-related); VGR; |
| <b>Gene ID</b>         | 654  |
| <b>mRNA Refseq</b>     | NM_001718  |

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**Protein Refseq** NP\_001709

**MIM** 112266

**UniProt ID** P22004

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