

## Recombinant Human BMPR2 cell lysate

Cat. No. BMPR2-2717HCL Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human BMPR-II derived in Human Cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>Preparation method</b>	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
<b>Lysis buffer</b>	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
<b>Quality control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue
<b>Recommended Usage</b>	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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reducing agent prior to heating.

**Stability**

Samples are stable for up to twelve months from date of receipt at -80°C

**Storage Buffer**

50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF

**Storage Instruction**

Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

## GENE INFORMATION

**Gene Name**

[BMPR2 bone morphogenetic protein receptor, type II \(serine/threonine kinase\) \[ Homo sapiens \]](#)

**Official Symbol**

BMPR2

**Synonyms**

BMPR2; bone morphogenetic protein receptor, type II (serine/threonine kinase); PPH1, primary pulmonary hypertension 1; bone morphogenetic protein receptor type-2; BMPR II; BMPR3; BRK 3; T ALK; BMPR-2; BMP type-2 receptor; BMP type II receptor; type II activin receptor-like kinase; bone morphogenetic protein receptor type II; type II receptor for bone morphogenetic protein-4; BMR2; PPH1; BRK-3; T-ALK; BMPR-II; FLJ41585; FLJ76945;

**Gene ID**

[659](#)

**mRNA Refseq**

[NM\\_001204](#)

**Protein Refseq**

[NP\\_001195](#)

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<b>MIM</b>	600799
<b>UniProt ID</b>	Q13873
<b>Chromosome Location</b>	2q33-q34
<b>Pathway</b>	ALK1 signaling events, organism-specific biosystem; ALK2 signaling events, organism-specific biosystem; BMP receptor signaling, organism-specific biosystem; BMP signalling and regulation, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Heart Development, organism-specific biosystem;
<b>Function</b>	ATP binding; activin receptor activity, type II; growth factor binding; metal ion binding; nucleotide binding; protein binding; receptor activity; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity;

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