

## Recombinant Human SMAD2 Protein

Catalog #	Source	Reactivity	Applications
CRP2817	E. coli	Human	E, WB, SDS-PAGE, MS

<b>Description</b>	Recombinant Human SMAD2 Protein is produced by E.coli expression system and the target gene encoding Ser2-Ser467 is expressed with a 6His, Flag tag at the N-terminus.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 500mM NaCl, pH7.5.
<b>Gene Symbol</b>	SMAD2
<b>Alternative Names</b>	MADH2; MADR2; Mothers against decapentaplegic homolog 2; MAD homolog 2; Mothers against DPP homolog 2; JV18-1; Mad-related protein 2; hMAD-2; SMAD family member 2; SMAD 2; Smad2; hSMAD2
<b>Entrez Gene</b>	4087 (Human)
<b>SwissProt</b>	Q15796 (Human)
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE.
<b>Chemical Structure</b>	MRGSHHHHHH GSDYKDDDDK SSILPFTPPV VKRLLGWKKS AGGSGGAGGG EQNGQEEKWC EKAVKSLVKK LKKTGRLEDEL EKAITTQNCN TKCVTIPSTC SEIWGLSTPN TIDQWDTTGL YSFSEQTRSL DGRLQVSHRK GLPHVIYCRL WRWPDLHSHH ELKAIENCEY AFNLKKDEVC VNPYHYQRVE TPVLPVLPVLP RHTEILTELP PLDDYTHSIP ENTNFPAGIE PQSNYIPETP PPGYISEDGE TSDQQLNQSM DTGSPAELSP TTLSPVNHSL DLQPVTYSEP AFWCSIAYYE LNQRVGETFH ASQPSLTVDG FTDPSNSERF CLGLLSNVNR NATVEMTRRH IGRGVRLYYI GGEVFAECLS DSAIFVQSPN CNQRYGWHPA TVCKIPPGCN LKIFNNQEFA ALLAQSVNQG FEAVYQLTRM CTIRMSFVKG WGAEYRRQTV TSTPCWIELH LNGPLQWLDK VLTQMGSPSV RCSSMS
<b>Quality Control</b>	Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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# Product Data Sheet

**Directions for Use** Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Storage/Stability** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

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