

Product Data Sheet

Recombinant Human SMAD4 Protein

Catalog #	Source	Reactivity	Applications		
CRP2319	E. coli	Human	E, WB, SDS-PAGE, MS		
Description		Recombinant Human SMAI	D4 Protein is produced by our E. coli expression system		
		and the target gene encodi	ng Met1-Asp552 is expressed with a 6His tag at the		
		C-terminus.			
Form		Lyophilized from a 0.2 μ M f	filtered solution of 20mM Tris-HCl, pH 8.0.		
Gene Symbol	I	SMAD4			
Alternative Names		DPC4; MADH4; Mothers against decapentaplegic homolog 4; MAD homolog 4;			
		Mothers against DPP homo	log 4; Deletion target in pancreatic carcinoma 4; SMAD		
		family member 4; SMAD 4;	Smad4; hSMAD4		
Entrez Gene		4089 (Human)			
SwissProt		Q13485 (Human)			
Purity		Greater than 95% as deterr	nined by reducing SDS-PAGE.		
Chemical Structure		MDNMSITNTP TSNDACLSIV	Y HSLMCHRQGG ESETFAKRAI ESLVKKLKEK KDELDSLITA		
		ITTNGAHPSK CVTIQRTLDG	RLQVAGRKGF PHVIYARLWR WPDLHKNELK HVKYCQYAFD		
		LKCDSVCVNP YHYERVVSPG	IDLSGLTLQS NAPSSMMVKD EYVHDFEGQP SLSTEGHSIQ		
		TIQHPPSNRA STETYSTPAL L	APSESNATS TANFPNIPVA STSQPASILG GSHSEGLLQI		
		ASGPQPGQQQ NGFTGQPAT	TY HHNSTTTWTG SRTAPYTPNL PHHQNGHLQH		
		HPPMPPHPGH YWPVHNEL	AF QPPISNHPAP EYWCSIAYFE MDVQVGETFK VPSSCPIVTV		
		DGYVDPSGGD RFCLGQLSN	V HRTEAIERAR LHIGKGVQLE CKGEGDVWVR CLSDHAVFVQ		
		SYYLDREAGR APGDAVHKIY	PSAYIKVFDL RQCHRQMQQQ AATAQAAAAA QAAAVAGNIP		
		GPGSVGGIAP AISLSAAAGI (GVDDLRRLCI LRMSFVKGWG PDYPRQSIKE TPCWIEIHLH		
		RALQLLDEVL HTMPIADPQP	LDLEHHHHHH		
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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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Quality Control Endotoxin: Less than $0.1 \text{ ng/}\mu\text{g}$ (1 IEU/ μg) as determined by LAL test.

- 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 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
- Storage/StabilityLyophilized 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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