



Recombinant Human E3 ubiquitin-protein ligase SMURF2 (SMURF2)

Product Code	CSB-YP872532HU
Relevance	E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Interacts with SMAD1 and SMAD7 in order to trigger their ubiquitination and proteasome-dependent degradation. In addition, interaction with SMAD7 activates autocatalytic degradation, which is prevented by interaction with SCYE1. Forms a stable complex with the TGF-beta receptor-mediated phosphorylated SMAD2 and SMAD3. In this way, SMAD2 may recruit substrates, such as SNON, for ubiquitin-mediated degradation. Enhances the inhibitory activity of SMAD7 and reduces the transcriptional activity of SMAD2. Coexpression of SMURF2 with SMAD1 results in considerable decrease in steady-state level of SMAD1 protein and a smaller decrease of SMAD2 level.
Abbreviation	Recombinant Human SMURF2 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9HAU4
Alias	SMAD ubiquitination regulatory factor 2SMAD-specific E3 ubiquitin-protein ligase 2
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MSNPGGRRNGPVKLRRLTVLCAKNLVKKDFFRLPDPFAKVVVDGSGQCHSTDT VKNTLDPKWNQHYDLYIGKSDSVTISVWNHKKIHKKQGAGFLGCVRLLSNAIN RLKDTGYQRLDLCKLGPNDNDTVRGQIVVSLQSRDRIGTGGQVVDCSRLFDN DLPDGWEERTASGRIQYLNHITRRTTQWERPTRPASEYSSPGRPLSCFVDEN TPISGTNGATCGQSSDPRLAERRVRSQRHRNYMSRTHLHTPPDLPEGYEQRT TQQGQVYFLHTQTGVSTWHDPRVPRDLSNINCEELGPLPPGWEIRNTATGRV YFVDHNNRRTTQFTDPRLSANLHLVLNRQNQLKDQQQQVSLCPDDTECLTV PRYKRDLVQKLKILRQELSQQQPQAGHCRIEVSREEIFEESYRQVMKMRPKDL WKRLMIKFRGEEGLDYGGVAREWLILLSHEMLNPYYGLFQYSRDDIYTLQINP DSAVNPEHLSYFHFVGRIMGMAVFGHYIDGGFTLPFYKQLLGSITLDDMEL VDPDLHNSLVWILENDITGVL DHTFCVEHNAYGEIIQHELKPNGKSIPVNEENKK EYVRLYVNWFRFLRGIEAQFLALQKGFNEVIPQHLLKTFDEKELELIICGLGKIDV NDWKVNTRLKHCTPDSNIVKWFVKAVEFFDEERRARLLQFVTGSSRVPLQGF KALQGAAGPRLFTIHQIDACTNNLPAHTCFNRIDIPPYESYEKLYEKLLTAIET CGFAVE
Research Area	Epigenetics and Nuclear Signaling



Source	Yeast
Target Names	SMURF2
Protein Names	Recommended name: E3 ubiquitin-protein ligase SMURF2 Short name=hSMURF2 EC= 6.3.2.- Alternative name(s): SMAD ubiquitination regulatory factor 2 SMAD-specific E3 ubiquitin-protein ligase 2
Expression Region	1-748aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	88.2kDa
Protein Length	Full Length

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.