

Recombinant Human SMURF2 Protein (1-748 aa), His-tagged

Cat. No. SMURF2-1714H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human SMURF2 Protein (1-748 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Full Length.

Species Human

Source Yeast

ProteinLength 1-748 aa

Description 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.

Form Tris-based buffer,50% glycerol

Molecular Mass 88.2 kDa

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AA Sequence

MSNPGGRRNGPVKLRLTLCAKNLVKKDFFRLPDPFAKVVVDGSGQCHSTDTVKN
 TLDPKWNQHYDLYIGKSDSVTISVWNHKKIHKKQGAGFLGCVRLLSNAINRLKDTGY
 QRLDLCKLGPNDNDTVRGQIVVSLQSRDRIGTGGQVVDCSRLFDNDLPDGWEERR
 TASGRIQYLNHITRTTQWERPTRPASEYSSPGRPLSCFVDENTPISGTNGATCGQSS
 DPRLAERRVRSQRHRNYMSRTHLHTPPDLPEGYEQRRTTQQGQVYFLHTQTGVST
 WHDPRVPRDLSNINCEELGPLPPGWEIRNTATGRVYFVDHNNRTTQFTDPRLSANL
 HLVLNRQNQLKDQQQQQVVS LCPDDTECLTVPRYKRDLVQKLKILRQELSQQQPQA
 GHCRIEVSREEIFEESYRQVMKMRPKDLWKRLMIKFRGEEGLDYGGVAREWLYLLS
 HEMLNPHYGLFQYSRDDIYTLQINPDSAVNPEHLSYFHFVGRIMGMAVFHGHYIDGG
 FTLPFYKQLLGKSITLDDMELVDPDLHNSLVWILENDITGVL DHTFCVEHNAYGEIIQH
 ELKPNGKSIPVNEENKKEYVRLYVNWRFRLGIEAQFLALQKGFNEVIPQHLLKTFDEK
 ELELIICGLGKIDVNDWKVNTRLKHCTPDSNIVKWFWKAVEFFDEERRARLLQFVTG
 SSRVPLQGFKALQGAAGPRLFTIHQIDACTNNLPKAHTCFNRIDIPPYESYEKLYEKLL
 TAIETCGFAVE

Purity

> 90% as determined by SDS-PAGE.

Notes

Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration

A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name

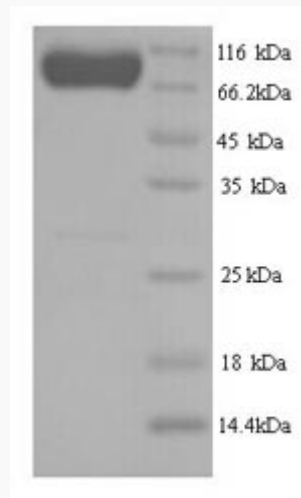
SMURF2 SMAD specific E3 ubiquitin protein ligase 2 [Homo sapiens]

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Official Symbol	SMURF2
Synonyms	SMURF2; hSMURF2; E3 ubiquitin ligase SMURF2; MGC138150; DKFZp686F0270;
Gene ID	64750
mRNA Refseq	NM_022739
Protein Refseq	NP_073576
MIM	605532
UniProt ID	Q9HAU4



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

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