

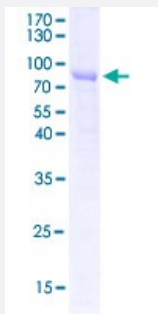
Full-Length

WAS (Human) Recombinant Protein (P01)

Catalog # H00007454-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human WAS full-length ORF (AAH12738.1, 1 a.a. - 502 a.a.) recombinant protein with GST tag at N-terminal.

Sequence

MSGGPMGGRPGGRGAPAVQQNIPSTLLQDHENQRLFEMLGRKCLTLATAVVQLYLALPPGAEH
WTKEHCGAVCFVKDNPQKSYFIRLYGLQAGRLLWEQELYSQLVYSTPTPFFHTFAGDDCQAGLN
FADEDEAQAFRALVQEKIQRNQRQSGDRRLPPPPPTANEERRGGLPPLPLHPGGDQGGPPV
GPLSLGLATVDIQNPDITSSRYRGLPAPGSPADKKRSGKKKISKADIGAPSGFKHVSHVGWDPQ
NGFDVNNLDPDLRSLFSRAGISEAQLTDAETSKLYDFIEDQGGLEAVRQEMRRQEPLPPPPPPS
RGGNQLPRPPIVGGNKGSRGPLPPVPLGIAPPPPTPRGPPPPGRGGPPPPPPATGRSGPLPPP
PPGAGGPPMPPPPPPPPPSSGNGPAPPPLPPALVPAGGLAPGGGRGALLDQIRQGIQLNKTP
GAPESSALQPPPPQSSEGLVGALMHVMQKRSRAIHSSDEGEDQAGDEDEDDEWDD

Theoretical MW (kDa)

81.62

Interspecies Antigen Sequence

Mouse (88); Rat (93)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — WAS

Entrez GeneID[7454](#)**GeneBank Accession#**[BC012738.2](#)**Protein Accession#**[AAH12738.1](#)**Gene Name**

WAS

Gene Alias

IMD2, THC, WASP

Gene Description

Wiskott-Aldrich syndrome (eczema-thrombocytopenia)

Omim ID[300299](#) [300392](#) [301000](#) [313900](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The Wiskott-Aldrich syndrome (WAS) family of proteins share similar domain structure, and are involved in transduction of signals from receptors on the cell surface to the actin cytoskeleton. The presence of a number of different motifs suggests that they are regulated by a number of different stimuli, and interact with multiple proteins. Recent studies have demonstrated that these proteins, directly or indirectly, associate with the small GTPase, Cdc42, known to regulate formation of actin filaments, and the cytoskeletal organizing complex, Arp2/3. Wiskott-Aldrich syndrome is a rare, inherited, X-linked, recessive disease characterized by immune dysregulation and microthrombocytopenia, and is caused by mutations in the WAS gene. The WAS gene product is a cytoplasmic protein, expressed exclusively in hematopoietic cells, which show signalling and cytoskeletal abnormalities in WAS patients. A transcript variant arising as a result of alternative promoter usage, and containing a different 5' UTR sequence, has been described, however, its full-length nature is not known. [provided by RefSeq]

Other Designations

OTTHUMP00000032395|Wiskott-Aldrich syndrome protein|thrombocytopenia 1 (X-linked)

Publication Reference

- [Wiskott-Aldrich syndrome protein forms nuclear condensates and regulates alternative splicing.](#)

Baolei Yuan, Xuan Zhou, Keiichiro Suzuki, Gerardo Ramos-Mandujano, Mengge Wang, Muhammad Tehseen, Lorena V Cortés-Medina, James J Moresco, Sarah Dunn, Reyna Hernandez-Benitez, Tomoaki Hishida, Na Young Kim, Manal M Andijani, Chongwei Bi, Manching Ku, Yuta Takahashi, Jinna Xu, Jinsong Qiu, Ling Huang, Christopher Benner, Emi Aizawa, Jing Qu, Guang-Hui Liu, Zhongwei Li, Fei Yi, Yanal Ghosheh, Changwei Shao, Maxim Shokhirev, Patrizia Comoli, Francesco Frassoni, John R Yates 3rd, Xiang-Dong Fu, Conc

Nature Communications 2022 Jun; 13(1):3646.

Application: Microscale thermophoresis (MST), Human, Recombinant protein

Pathway

- [Adherens junction](#)
- [Chemokine signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Immunologic Deficiency Syndromes](#)
- [Severe Combined Immunodeficiency](#)