

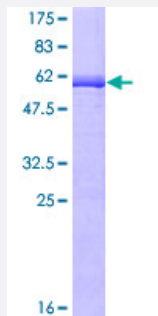
Full-Length

TIRAP (Human) Recombinant Protein (P01)

Catalog # H00114609-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human TIRAP full-length ORF (AAH32474.1, 1 a.a. - 256 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MASSTSLPAPGSRPKKPLGKMADWFRQTLLKKPKKRPNSPESTSSDASQPTSQDSPLPPSLSS
VTSPSLPPTHASDSGSSRWSDYDVCVCHSEEDLVAAQDLVSYLEGSTASLRCFLQLRDATPG
GAIVSELQALSSSHCRVLLITPGFLQDPWCKYQMLQALTEAPGAEGCTIPLL SGLSRAAYPPELR
FMYVDGRGPDGGFRQVKEAVMRYLQTL SWHLL YHGTPEIGVKLETENPCRASDSHKCDKRYRE

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

53.9

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 — TIRAP

Entrez GeneID [114609](#)

GeneBank Accession# [BC032474](#)

Protein Accession# [AAH32474.1](#)

Gene Name TIRAP

Gene Alias FLJ42305, Mal, wyatt

Gene Description toll-interleukin 1 receptor (TIR) domain containing adaptor protein

Omim ID [606252 607948 610799 611162](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The innate immune system recognizes microbial pathogens through Toll-like receptors (TLRs), which identify pathogen-associated molecular patterns. Different TLRs recognize different pathogen-associated molecular patterns and all TLRs have a Toll-interleukin 1 receptor (TIR) domain, which is responsible for signal transduction. The protein encoded by this gene is a TIR adaptor protein involved in the TLR4 signaling pathway of the immune system. It activates NF-kappa-B, MAPK1, MAPK3 and JNK, which then results in cytokine secretion and the inflammatory response. Alternative splicing of this gene results in several transcript variants; however, not all variants have been fully described. [provided by RefSeq]

Other Designations

MyD88 adapter-like protein|OTTHUMP00000179130|OTTHUMP00000179132|TIR domain-containing adapter protein|TIR domain-containing adaptor protein|Toll-interleukin 1 receptor (TIR) domain-containing adapter protein|Toll-interleukin 1 receptor (TIR) domain-containing

Publication Reference

- [Toll-like receptor 4 promotes bladder cancer progression upon S100A8/A9 binding, which requires TIRAP-mediated TPL2 activation.](#)

Acosta Gonzalez Herik Rodrigo, Nahoko Tomonobu, Haruka Yoneda, Rie Kinoshita, Yosuke Mitsui, Takuya Sadahira, Shin-Ichi Terawaki, Yuma Gohara, Ni Luh Gede Yoni Komalasari, Fan Jiang, Hitoshi Murata, Ken-Ichi Yamamoto, Junichiro Futami, Akira Yamauchi, Futoshi Kuribayashi, Yusuke Inoue, Eisaku Kondo, Shinichi Toyooka, Masahiro Nishibori, Masami Watanabe, Yasutomo Nasu, Masakiyo Sakaguchi.

Biochemical and Biophysical Research Communications 2022 Dec; 634:83.

Application: Pull-Down, Recombinant proteins

Pathway

- [Toll-like receptor signaling pathway](#)

Disease

- [Acute Lung Injury](#)
- [Bacteriuria](#)
- [Candidiasis](#)
- [Cardiovascular Diseases](#)
- [Chagas Cardiomyopathy](#)
- [Chronic Disease](#)
- [Cross Infection](#)
- [Cystitis](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Inflammation](#)

- [Leprosy](#)
- [Lupus Erythematosus](#)
- [Malaria](#)
- [Pneumonia](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pyelonephritis](#)
- [Respiratory Distress Syndrome](#)
- [Sepsis](#)
- [Tuberculosis](#)
- [Urinary Tract Infections](#)