

Recombinant Mouse TIRAP Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51850

Size: 10ug, 100ug

Protein Name: Toll/interleukin-1 receptor domain-containing adapter protein (TIR domain-containing adapter protein) (Adaptor protein Wyatt) (MyD88 adapter-like protein)

Synonym: Tirap, Mal

UniProt ID: Q99JY1

UniProt Link: www.uniprot.org/uniprotkb/Q99JY1/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 241 AA

Molecular Weight: 26 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MASSSSVPASSTPSKKPRDKIADWFRQALLKKPKKMPISQESHLVDGSQTATQDGLSPSSCSSPPS
HSSPESRSSPSSCSSGMSPTSPPTHVDSSSSSSSGRWSKDYDVCVCHSEEDLEAAQELVSYLEGSQ
ASLRCFLQLRDAAPGGAIVSELCQALSRSHCRALLITPGFLRDPWCKYQMLQALTEAPASEGCTIPLL
SGLSRAAYPPELRFMYVVDGRGKDGGFYQVKEAVIHYLETLS

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Toll/interleukin-1 receptor domain-containing adapter protein (TIR domain-containing adapter protein) (Adaptor protein Wyatt) (MyD88 adapter-like protein) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Adapter involved in the TLR2, TLR4 and RAGE signaling pathways in the innate immune response. Acts via IRAK2 and TRAF-6, leading to the activation of NF-kappa-B, MAPK1, MAPK3 and JNK, and resulting in cytokine secretion and the inflammatory response (By similarity). Positively regulates the production of TNF and interleukin-6 (By similarity).

Subcellular Localization: Cytoplasm . Cell membrane . Membrane . Note=Colocalizes with DAB2IP at the plasma membrane.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.