

Recombinant Mouse PATZ1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51603

Size: 10ug, 100ug

Protein Name: POZ (BTB) and AT hook-containing zinc finger 1 (BTB/POZ domain zinc finger transcription factor) (Protein kinase A RI subunit alpha-associated protein) (Zinc finger and BTB domain-containing protein 19) (Zinc finger protein 278)

Synonym: Patz1

UniProt ID: Q5NBY9

UniProt Link: www.uniprot.org/uniprotkb/Q5NBY9/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 687 AA

Molecular Weight: 74 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MERVNDASCGPSGCYTYQVSRHSTEMLHNLNQQRKNGGRFCDVLLRVGDESFP AHRVLAACSE
YFESVFSAQLGDGGAADGGPADVGGAAPGGGAGGSRELEMHTISSKVFGDILDFAYTSRIVVRL
ESFPELMTAAKFLLMRSVIEICQEVIKQSNVQILVPPARADIMLFRPPGTSDLGFPLDMTNGAAMAAN
SNGIAGSMQPEEEAARATGAAIAGQASLPVLPGVDR LPMVAGPLSPQLLTSPFPNVASSAPPLTSKR
GRGRPRKANLLDSMFGSPGGLREAGILPCGLCGKVFTDANRLRQHEAQHGVTSLQLGYIDLPPPR L
GENGLPISEDPDGPRKRSRTRKQVACEICGKIFRDVYHLNRHKLSHSGEKPYPSCPVCGLRFKRKDR
MSYHVRSHDGSVGKPYICQSCGKGFSRDPHLNGHIKQVHTSERPHKCQTCNASFATRDRLRSHLA
CHEDKVPCQVCGKYLRAAYMADHLKKHSEGPSNFCSICNRGFSSASYLKVHVKTHHGVPLPQVSR
HQEPILNGGA AFHCARTYGNKEGQKCSHQDLIESSDSYGDLSDASDLKTPEKQSANGSFSCDVAVP
KNKMESDGEKKYPCPECGSFFRSKSYLNKHIQKVHVRALGGPLGDLGPALGSPFSPQQNMSLLESF
GFQIVQSAFASSLVDPEVDQQPMGPEGK

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 POZ (BTB) and AT hook-containing zinc finger 1 (BTB/POZ domain zinc finger transcription factor) (Protein kinase A RI subunit alpha-associated protein) (Zinc finger and BTB domain-containing protein 19) (Zinc finger protein 278) 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: Transcriptional regulator that plays a role in many biological processes such as embryogenesis, senescence, T-cell development or neurogenesis (PubMed:18241078, PubMed:22886576, PubMed:33898458). Interacts with the TP53 protein to control genes that are important in proliferation and in the DNA-damage response. Mechanistically, the interaction inhibits the DNA binding and transcriptional activity of TP53/p53 (By similarity). Part of the transcriptional network modulating regulatory T-cell development and controls the generation of the regulatory T-cell pool under homeostatic conditions (By similarity).

Subcellular Localization: Nucleus .

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.