Recombinant Human PATZ1 Protein, HIS-tagged

Cat. No. PATZ1-048H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PATZ1, transcript variant 1, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	The protein encoded by this gene contains an A-T hook DNA binding motif which usually binds to other DNA binding structures to play an important role in chromatin modeling and transcription regulation. Its Poz domain is thought to function as a site for protein-protein interaction and is required for transcriptional repression, and the zinc-fingers comprise the DNA binding domain. Since the encoded protein has typical features of a transcription factor, it is postulated to be a repressor of gene expression. In small round cell sarcoma, this gene is fused to EWS by a small inversion of 22q, then the hybrid is thought to be translocated (t(1;22)(p36.1;q12). The rearrangement of chromosome 22 involves intron 8 of EWS and exon 1 of this gene creating a chimeric sequence containing the transactivation domain of EWS fused to zinc finger domain of this protein. This is a distinct example of an intra-chromosomal rearrangement of chromosome 22. Four alternatively spliced transcript variants are described for this gene.
Form	25mM Tris, pH8.0, 150mM NaCl, 10% glycerol, 1% Sarkosyl.
Molecular Mass	73.9 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	PATZ1 POZ (BTB) and AT hook containing zinc finger 1 [Homo sapiens]
Official Symbol	PATZ1
Synonyms	PATZ1; POZ (BTB) and AT hook containing zinc finger 1; zinc finger protein 278 , ZNF278; POZ-, AT hook-, and zinc finger-containing protein 1; dJ400N23; MAZR; PATZ; RIAZ; ZBTB19; ZSG; MAZ-related factor; zinc finger protein 278; POZ-AT hook-zinc finger protein; zinc finger sarcoma gene protein; BTB-POZ domain zinc finger transcription factor; BTB/POZ domain zinc finger transcription factor; zinc finger and BTB domain-containing protein 19; protein kinase A RI subunit alpha-associated protein; ZNF278;
Gene ID	23598
mRNA Refseq	NM_014323
Protein Refseq	NP_055138
MIM	605165
UniProt ID	Q9HBE1

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