

Product datasheet for **TP760041**

BMI1 (NM_005180) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human BMI1 polycomb ring finger oncogene (BMI1), full length, with N-terminal HIS tag, expressed in E.Coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding human full-length BMI1
Tag:	N-His
Predicted MW:	36.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 100 mM arginine, 10% glycerol
Bioactivity:	In vitro kinase assay substrate (PMID: 28270146) Binding assay (competitor) (PMID: 29402932)
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_005171
Locus ID:	648
UniProt ID:	P35226
RefSeq Size:	3435
Cytogenetics:	10p12.2
RefSeq ORF:	978
Synonyms:	flvi-2/bmi-1; FLVI2/BMI1; PCGF4; RNF51



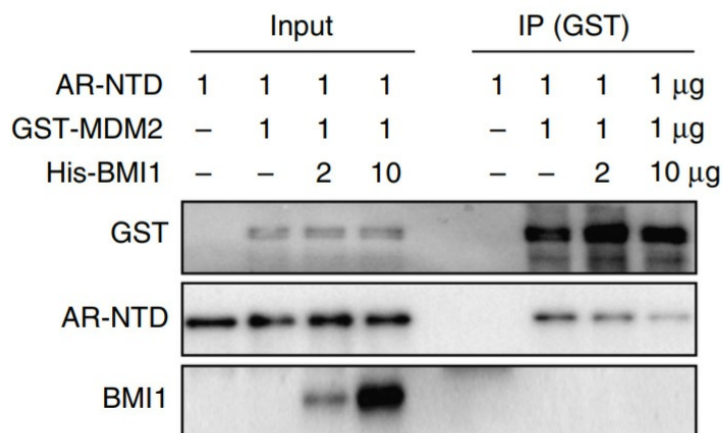
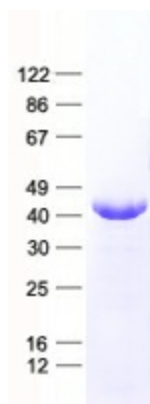
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Summary:

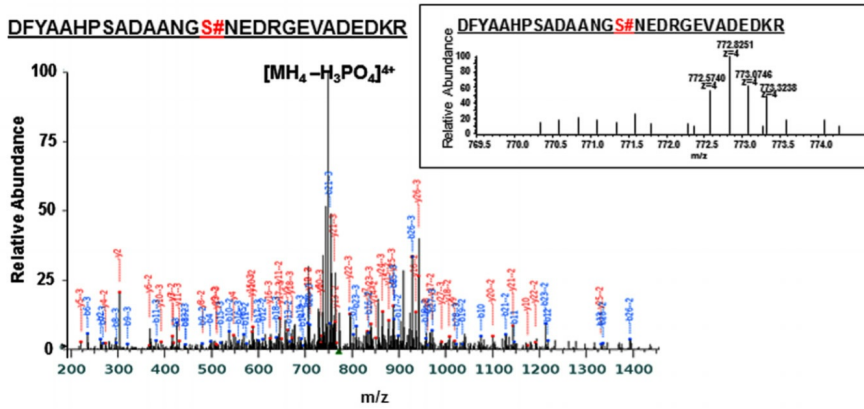
This gene encodes a ring finger protein that is major component of the polycomb group complex 1 (PRC1). This complex functions through chromatin remodeling as an essential epigenetic repressor of multiple regulatory genes involved in embryonic development and self-renewal in somatic stem cells. This protein also plays a central role in DNA damage repair. This gene is an oncogene and aberrant expression is associated with numerous cancers and is associated with resistance to certain chemotherapies. A pseudogene of this gene is found on chromosome X. Read-through transcription also exists between this gene and the upstream COMM domain containing 3 (COMMD3) gene. [provided by RefSeq, Sep 2015]

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

Product images:


BMI1 competitively inhibits the interaction between MDM2 and the AR-NTD. Purified AR-NTD and GST-MDM2 proteins were incubated with purified His-BMI1 protein (OriGene TP760041) at indicated concentrations at 4 C for 12 hours, followed by GST immunoprecipitation (IP). Both inputs and immunoprecipitated samples were probed with indicated antibodies in Western blot. Figure cited from Nat Commun, PMID: 29402932



CK2alpha phosphorylates BMI1 at serine 110. Purified BMI1 (OriGene TP760041) and CK2alpha reacted in a kinase assay buffer supplemented with nonradioactive ATP. The reaction sample was analyzed with mass spectrometry. The spectrum of the BMI1 phosphopeptide is presented with the extracted ion chromatogram for the peptide with phosphate shown in the inset (indicated by #). Figure cited from Mol Cancer, PMID: 28270146