



Anti-PAXIP1 (aa 196-325) polyclonal antibody (DPABH-16120)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

Involved in DNA damage response and in transcriptional regulation through histone methyltransferase (HMT) complexes. Plays a role in early development. In DNA damage response is required for cell survival after ionizing radiation. In vitro shown to be involved in the homologous recombination mechanism for the repair of double-strand breaks (DSBs). Its localization to DNA damage foci requires RNF8 and UBE2N. Recruits TP53BP1 to DNA damage foci and, at least in particular repair processes, effective DNA damage response appears to require the association with TP53BP1 phosphorylated by ATM at Ser-25. Together with TP53BP1 regulates ATM association. Recruits PA1 to sites of DNA damage and the PA1:PAXIP1 complex is required for cell survival in response to DNA damage; the function is probably independent of MLL-containing histone methyltransferase (HMT) complexes. Promotes ubiquitination of PCNA following UV irradiation and may regulate recruitment of polymerase eta and RAD51 to chromatin after DNA damage. Proposed to be involved in transcriptional regulation by linking MLL-containing histone methyltransferase (HMT) complexes to gene promoters by interacting with promoter-bound transcription factors such as PAX2. Associates with gene promoters that are known to be regulated by MLL2. During immunoglobulin class switching in activated B cells is involved in trimethylation of histone H3 at Lys-4 and in transcription initiation of downstream switch regions at the immunoglobulin heavy-chain (Igh) locus; this function appears to involve the recruitment of MLL-containing HMT complexes.

Immunogen	Recombinant fragment corresponding to amino acids 196-325 of Human PTIP (Q6ZW49).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified

Conjugate	Unconjugated
Applications	WB, IHC-P
Format	Liquid
Size	100 µl
Buffer	pH: 7.20; Constituents: 59% PBS, 40% Glycerol
Preservative	0.02% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	PAXIP1 PAX interacting (with transcription-activation domain) protein 2 [Homo sapiens]
Official Symbol	PAXIP1
Synonyms	PAXIP1; PAX interacting (with transcription-activation domain) protein 1; PTIP; TNRC2; CAGF28; CAGF29; PACIP1; PAXIP1L; PAX-interacting protein 1; protein encoded by CAG trinucleotide repeats; PAX transcription activation domain interacting protein 1 like;
Entrez Gene ID	22976
Protein Refseq	NP_031375.3
UniProt ID	Q6ZW49
Function	protein binding;