10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BAZ1B Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP19326a

Specification

BAZ1B Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9UIG0

BAZ1B Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 9031

Other Names
Tyrosine-protein kinase BAZ1B, Bromodomain adjacent to zinc finger domain protein 1B, Williams syndrome transcription factor, Williams-Beuren syndrome chromosomal region 10 protein, Williams-Beuren syndrome chromosomal region 9 protein, hWALp2, BAZ1B, WBSC10, WBSCR10, WBSCR9, WSTF

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

BAZ1B Antibody (N-term) Blocking Peptide - Protein Information

Name BAZ1B

Synonyms WBSC10, WBSCR10, WBSCR9, WSTF

Function
Atypical tyrosine-protein kinase that plays a central role in chromatin remodeling and acts as a transcription regulator (PubMed:19092802). Involved in DNA damage response by phosphorylating 'Tyr-142' of histone H2AX (H2AXY142ph) (PubMed:19092802, PubMed:19234442). H2AXY142ph plays a central role in DNA repair and acts as a mark that distinguishes between apoptotic and repair responses to genotoxic stress (PubMed:19092802, PubMed:19234442). Regulatory subunit of the ATP-dependent WICH-1 and WICH-5 ISWI chromatin remodeling complexes, which form ordered nucleosome arrays on chromatin and facilitate access to DNA during DNA-templated processes such as DNA replication, transcription, and repair (PubMed:11980720, PubMed:<a

href="http://www.uniprot.org/citations/28801535" target="_blank">28801535). Both complexes regulate the spacing of nucleosomes along the chromatin and have the ability to slide mononucleosomes to the center of a DNA template (PubMed:28801535). The WICH-1 ISWI chromatin remodeling complex has a lower ATP hydrolysis rate than the WICH-5 ISWI chromatin remodeling complex (PubMed:28801535). The WICH-5 ISWI chromatin-remodeling complex regulates the transcription of various genes, has a role in RNA polymerase I transcription (By similarity). Within the B-WICH complex has a role in RNA polymerase III transcription (PubMed:16603771). Mediates the recruitment of the WICH-5 ISWI chromatin remodeling complex to replication foci during DNA replication (PubMed:15543136).

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00063, ECO:0000255|PROSITE-ProRule:PRU00475, ECO:0000269|PubMed:11980720, ECO:0000269|PubMed:15543136, ECO:0000269|PubMed:16603771, ECO:0000269|PubMed:25593309}. Note=Accumulates in pericentromeric heterochromatin during replication (PubMed:15543136). Co-localizes with PCNA at replication foci during S phase (PubMed:15543136). Co-localizes with SMARCA5/SNF2H at replication foci during late-S phase (PubMed:15543136). Also localizes to replication foci independently of SMARCA5/SNF2H and PCNA (PubMed:15543136). Localizes to sites of DNA damage (PubMed:25593309).

Tissue Location
Ubiquitously expressed with high levels of expression in heart, brain, placenta, skeletal muscle and ovary

BAZ1B Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

BAZ1B Antibody (N-term) Blocking Peptide - Images

BAZ1B Antibody (N-term) Blocking Peptide - Background

This gene encodes a member of the bromodomain proteinfamily. The bromodomain is a structural motif characteristic ofproteins involved in chromatin-dependent regulation oftranscription. This gene is deleted in Williams-Beuren syndrome, adevelopmental disorder caused by deletion of multiple genes at7q11.23.

BAZ1B Antibody (N-term) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Johansen, C.T., et al. Nat. Genet. 42(8):684-687(2010)Chidambaram, M., et al. Metab. Clin. Exp. (2010) In press :Oya, H., et al. J. Biol. Chem. 284(47):32472-32482(2009)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)