

KD-Validated Anti-BAZ1B Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1346**Specification****KD-Validated Anti-BAZ1B Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	Q9UIG0
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 170 kDa , observed, 185 kDa
Gene Name	KDa
Aliases	BAZ1B BAZ1B; Bromodomain Adjacent To Zinc Finger Domain 1B; WSTF; WBSCR10; WBSCR9; Williams-Beuren Syndrome Chromosomal Region 10 Protein; Williams-Beuren Syndrome Chromosomal Region 9 Protein; Williams Syndrome; Transcription Factor; Tyrosine-Protein Kinase BAZ1B; Transcription Factor; WSTF; EC 2.7.10.2; HWALp2; Bromodomain Adjacent To Zinc Finger Domain Protein 1B; Williams-Beuren Syndrome Chromosome Region 10; Williams-Beuren Syndrome Chromosome Region 9; WBSCR10 A synthesized peptide derived from human WSTF
Immunogen	

KD-Validated Anti-BAZ1B Rabbit Monoclonal Antibody - Additional Information

Gene ID	9031
Other Names	
Tyrosine-protein kinase BAZ1B, 2.7.10.2, 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, WBSCR10, WBSCR9, WSTF	

KD-Validated Anti-BAZ1B Rabbit Monoclonal Antibody - Protein Information**Name** BAZ1B**Synonyms** WBSCR10, WBSCR10, WBSCR9, WSTF**Function**

Atypical tyrosine-protein kinase that plays a central role in chromatin remodeling and acts as a transcription regulator (PubMed:

target="_blank">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: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

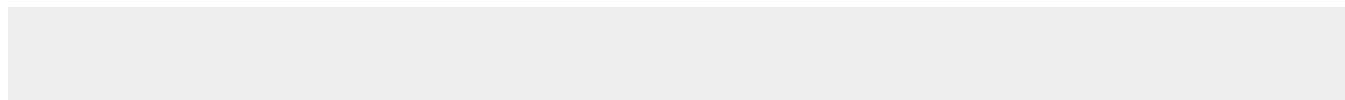
Ubiquitously expressed with high levels of expression in heart, brain, placenta, skeletal muscle and ovary

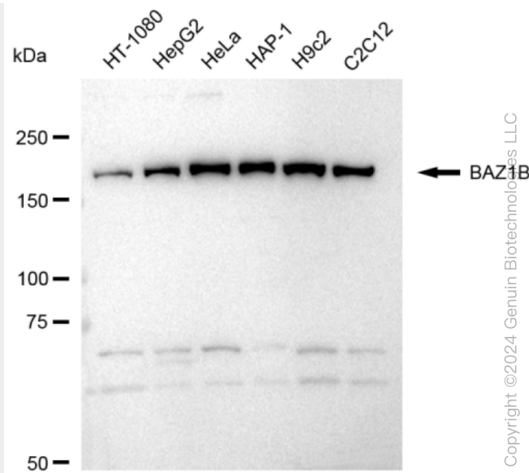
KD-Validated Anti-BAZ1B Rabbit Monoclonal Antibody - Protocols

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

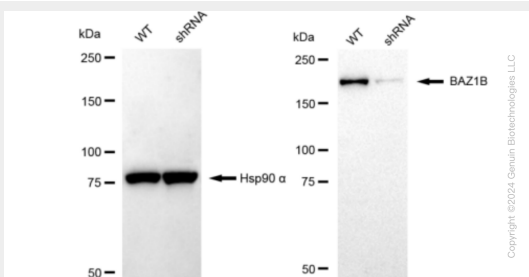
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-BAZ1B Rabbit Monoclonal Antibody - Images

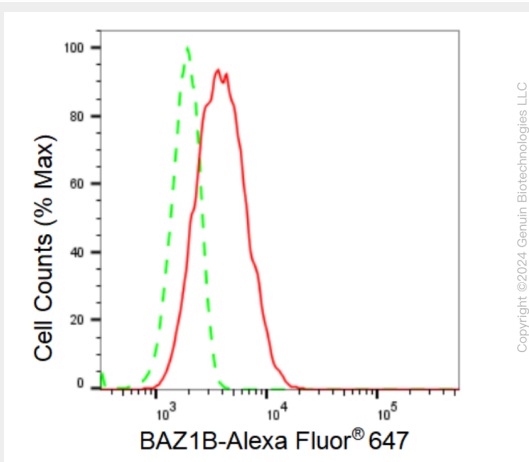




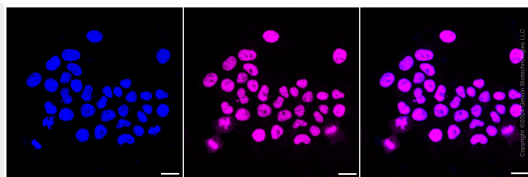
Western blotting analysis using anti-BAZ1B antibody (Cat#AGI1346). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-BAZ1B antibody (Cat#AGI1346, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-BAZ1B antibody (Cat#AGI1346). BAZ1B expression in wild type (WT) and BAZ1B shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-BAZ1B antibody (Cat#AGI1346, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of BAZ1B expression in HeLa cells using BAZ1B antibody (Cat#AGI1346, 1:2,000). Green, isotype control; red, BAZ1B.



Immunocytochemical staining of HeLa cells with BAZ1B antibody (Cat#AGI1346, 1:1,000). Nuclei were stained blue with DAPI; BAZ1B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.