# WSTF Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | WSTF, Polyclonal Antibody |
| **Full Product Name** | WSTF Polyclonal Antibody |
| **Product Gene Name** | anti-WSTF antibody |
| **Product Synonym Gene Name** | BAZ1B |
| **Product Synonym 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; WBSC10; WBSCR10; WBSCR9; WSTF |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Rat, Pig |
| **Purity/Purification** | Purified Rabbit Polyclonal Antibody (Pab) |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |
| **Molecular Weight** | 170,447 Da |
| **OMIM** | 605681 |
| **3D Structure** | ModBase 3D Structure for Q9UIG0 |
| **Applications Tested/Suitable for anti-WSTF antibody** | Immunohistochemistry-Paraffin (IHC-P), Immunohistochemistry-Frozen (IHC-F), Immunofluorescence (IF) |
| **Related Product Information for anti-WSTF antibody** | MBS9237954 is an antibody targeting WSTF. Also known as WSTF Polyclonal Antibody. Reactive in Rat, Pig. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-WSTF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WSTF. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 14670392 |
| **NCBI GeneID** | 9031 |
| **NCBI Accession #** | NP_115784.1 |
| **UniProt Primary Accession #** | Q9UIG0 |
| **UniProt Secondary Accession #** | O95039; O95247; O95277; Q6P1K4; Q86UJ6; B9EGK3; D3DXE9 |
| **UniProt Related Accession #** | Q9UIG0 |
| **GenBank Nucleotide #** | NM_032408.3 |
| **NCBI Official Full Name** | tyrosine-protein kinase BAZ1B |
| **NCBI Official Synonym Full Names** | bromodomain adjacent to zinc finger domain, 1B |

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| **NCBI Official Symbol** | BAZ1B |
| **NCBI Official Synonym Symbols** | WSTF; WBSCR9; WBSCR10 |
| **UniProt Protein Name** | Tyrosine-protein kinase BAZ1B |
| **UniProt Synonym Protein Names** | 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 |
| **UniProt Gene Name** | BAZ1B |
| **UniProt Synonym Gene Names** | WBSC10; WBSCR10; WBSCR9; WSTF |
| **UniProt Entry Name** | BAZ1B_HUMAN |
| **NCBI Protein Information** | tyrosine-protein kinase BAZ1B; hWALp2; transcription factor WSTF; williams syndrome transcription factor; williams-Beuren syndrome chromosomal region 9 protein; williams-Beuren syndrome chromosomal region 10 protein |
| **NCBI Summary for WSTF** | This gene encodes a member of the bromodomain protein family. The bromodomain is a structural motif characteristic of proteins involved in chromatin-dependent regulation of transcription. This gene is deleted in Williams-Beuren syndrome, a developmental disorder caused by deletion of multiple genes at 7q11.23. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for WSTF** | WSTF: plays a central role in chromatin remodeling and acts as a transcription regulator. Apparently possesses tyrosine-protein kinase activity, but bears no sequence resemblance classical tyrosine kinase proteins. Involved in DNA damage response by phosphorylating Y142 of histone H2AX. H2AXpY142 plays a central role in DNA repair and acts as a mark that distinguishes between apoptotic and repair responses to genotoxic stress. Essential component of the WICH complex, a chromatin remodeling complex that mobilizes nucleosomes and reconfigures irregular chromatin to a regular nucleosomal array structure. The WICH complex regulates the transcription of various genes, has a role in RNA polymerase I and RNA polymerase III transcription, mediates the histone H2AX phosphorylation at Y142, and is involved in the maintenance of chromatin structures during DNA replication processes. In the complex, it mediates the recruitment of the WICH complex to replication foci during DNA replication. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene. In the WINAC complex, plays an essential role by targeting the complex to acetylated histones, an essential step for VDR-promoter association. Accumulates in pericentromeric heterochromatin during replication. Targeted to replication foci throughout S phase via its association with PCNA. Ubiquitously expressed with high levels of expression in heart, brain, placenta, skeletal muscle and ovary. Two alternatively-spliced human isoforms have been reported.<br><br>Protein type: Protein kinase, Ser/Thr (non-receptor); DNA replication; Kinase, protein; EC 2.7.10.2; Nuclear receptor co-regulator; ATYPICAL group; BAZ family<br><br>Chromosomal Location of Human Ortholog: 7q11.23<br><br>Cellular Component: centric heterochromatin; nuclear replication fork; condensed chromosome<br><br>Molecular Function: protein binding; zinc ion binding; protein-tyrosine kinase activity; non-membrane spanning protein tyrosine kinase activity; histone kinase activity; chromatin binding; ATP binding<br><br>Biological Process: chromatin assembly or disassembly; heart morphogenesis; peptidyl-tyrosine phosphorylation; regulation of transcription, DNA-dependent; transcription, DNA-dependent; chromatin-mediated maintenance of transcription; histone phosphorylation; double-strand break repair; response to DNA damage stimulus |
| **Research Articles on WSTF** | **1.** Data indicate that the heterochromatic H2A.X is preferentially phosphorylated presumably by the accumulating WSTF-ISWI chromatin remodeling (WICH) complex, and suggests that Tyr142p might have a specific role in heterochromatin. |
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