

**WSTF Antibody**  
Rabbit mAb  
Catalog # AP91816

## Specification

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### WSTF Antibody - Product Information

Application	WB, FC
Primary Accession	<a href="#">O9UIG0</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
baz1b; hWALP2; WALP2; WBRS9; WBSC10; WBSCR10; WBSCR9; WSTF;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	170903 Da

### WSTF Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human WSTF
Description	Atypical tyrosine-protein kinase that plays a central role in chromatin remodeling and acts as a transcription regulator. Involved in DNA damage response by phosphorylating 'Tyr-142' of histone H2AX (H2AXY142ph). H2AXY142ph plays a central role in DNA repair and acts as a mark that distinguishes between apoptotic and repair responses to genotoxic stress.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### WSTF Antibody - 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:<a href="http://www.uniprot.org/citations/19092802" target="\_blank">19092802</a>). Involved in DNA damage response by phosphorylating 'Tyr-142' of histone H2AX (H2AXY142ph) (PubMed:<a href="http://www.uniprot.org/citations/19092802" target="\_blank">19092802</a>, PubMed:<a href="http://www.uniprot.org/citations/19234442" target="\_blank">19234442</a>

target="\_blank">19234442</a>). H2AXY142ph plays a central role in DNA repair and acts as a mark that distinguishes between apoptotic and repair responses to genotoxic stress (PubMed:<a href="http://www.uniprot.org/citations/19092802" target="\_blank">19092802</a>, PubMed:<a href="http://www.uniprot.org/citations/19234442" target="\_blank">19234442</a>). 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:<a href="http://www.uniprot.org/citations/11980720" target="\_blank">11980720</a>, PubMed:<a href="http://www.uniprot.org/citations/28801535" target="\_blank">28801535</a>). 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:<a href="http://www.uniprot.org/citations/28801535" target="\_blank">28801535</a>). The WICH-1 ISWI chromatin remodeling complex has a lower ATP hydrolysis rate than the WICH-5 ISWI chromatin remodeling complex (PubMed:<a href="http://www.uniprot.org/citations/28801535" target="\_blank">28801535</a>). 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:<a href="http://www.uniprot.org/citations/16603771" target="\_blank">16603771</a>). Mediates the recruitment of the WICH-5 ISWI chromatin remodeling complex to replication foci during DNA replication (PubMed:<a href="http://www.uniprot.org/citations/15543136" target="\_blank">15543136</a>).

#### 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

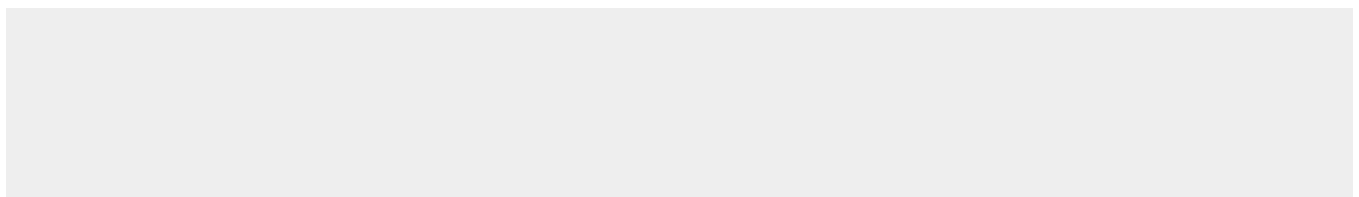
Ubiquitously expressed with high levels of expression in heart, brain, placenta, skeletal muscle and ovary

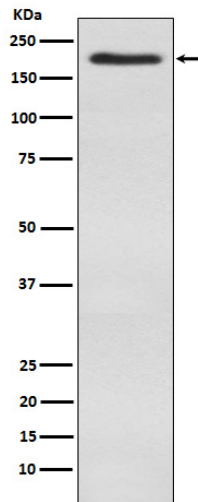
#### WSTF Antibody - Protocols

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](#)

#### WSTF Antibody - Images





Western blot analysis of WSTF expression in SH-SY5Y cell lysate.