

# **WSTF** Antibody

Rabbit mAb Catalog # AP91816

### **Product Information**

Application WB, FC Primary Accession Q9UIG0

Reactivity Rat, Human, Mouse

**Clonality** Monoclonal

Other Names baz1b; hWALP2; WBRS9; WBSC10; WBSCR10; WBSCR9; WSTF;

IsotypeRabbit IgGHostRabbitCalculated MW170903

## **Additional Information**

**Dilution** WB 1:500~1:2000 FC 1:50 **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. Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

Storage Condition and Buffer

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

## **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: 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).

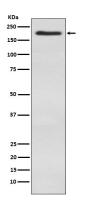
#### **Cellular Location**

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

# **Images**



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

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