

WHSC2 Antibody

Purified Mouse Monoclonal Antibody Catalog # AO2301a

Product Information

Application WB, IHC, FC, ICC, E

Primary Accession

Reactivity
Human, Rat
Host
Mouse
Clonality
Monoclonal
Clone Names
Isotype
IgG2b
Calculated MW

Q9H3P2
Human, Rat
Monoclonal
GB11H8
IgG2b
57277

Description This gene is expressed ubiquitously with higher levels in fetal than in adult

tissues. It encodes a protein sharing 93% sequence identity with the mouse protein. Wolf-Hirschhorn syndrome (WHS) is a malformation syndrome associated with a hemizygous deletion of the distal short arm of chromosome 4. This gene is mapped to the 165 kb WHS critical region, and may play a role in the phenotype of the WHS or Pitt-Rogers-Danks syndrome. The encoded protein is found to be capable of reacting with HLA-A2-restricted and

tumor-specific cytotoxic T lymphocytes, suggesting a target for use in specific immunotherapy for a large number of cancer patients. This protein has also been shown to be a member of the NELF (negative elongation factor) protein complex that participates in the regulation of RNA polymerase II transcription

elongation.

Immunogen Purified recombinant fragment of human WHSC2 (AA: 280-511) expressed in

E. Coli.

Formulation Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID 7469

Other Names Negative elongation factor A, NELF-A, Wolf-Hirschhorn syndrome candidate 2

protein, NELFA, WHSC2

Dilution WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A

E~~1/10000

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

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions WHSC2 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name NELFA

Synonyms WHSC2

Function Essential component of the NELF complex, a complex that negatively

regulates the elongation of transcription by RNA polymerase II. The NELF complex, which acts via an association with the DSIF complex and causes transcriptional pausing, is counteracted by the P- TEFb kinase complex.

Cellular Location Nucleus.

Tissue Location Ubiquitous. Expressed in heart, brain, placenta, liver, skeletal muscle, kidney

and pancreas. Expressed at lower level in adult lung. Expressed in fetal brain,

lung, liver and kidney

References

1.Hum Mol Genet. 2012 May 15;21(10):2181-93. 2.Exp Cell Res. 2009 Jun 10;315(10):1693-705.

Images

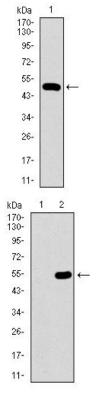
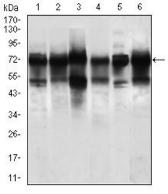


Figure 1: Western blot analysis using WHSC2 mAb against human WHSC2 recombinant protein. (Expected MW is 50.2 kDa)

Figure 2: Western blot analysis using WHSC2 mAb against HEK293 (1) and WHSC2 (AA: 280-511)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 3: Western blot analysis using WHSC2 mouse mAb against Jurkat (1), HeLa (2), HEK293 (3), A549 (5), SPC-A-1 (6) cell lysate, and Rat brain (4) tissue lysate.



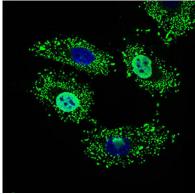


Figure 4: Immunofluorescence analysis of HeLa cells using WHSC2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

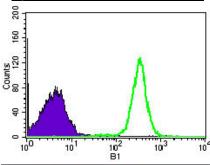


Figure 5: Flow cytometric analysis of HEK293 cells using WHSC2 mouse mAb (green) and negative control (purple).

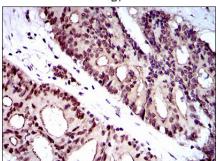


Figure 6: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using WHSC2 mouse mAb with DAB staining.

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