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**Product Name: WHSC2 Mouse Monoclonal Antibody****Catalog #: AMM83065**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,ICC,ELISA,FC
<b>Reactivity</b>	Human,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG2b
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	57.3kDa

**Antigen Information**

<b>Gene Name</b>	WHSC2
<b>Alternative Names</b>	NELFA; NELF-A; P/OKcl.15
<b>Gene ID</b>	7469.0
<b>SwissProt ID</b>	Q9H3P2
<b>Immunogen</b>	Purified recombinant fragment of human WHSC2 (AA: 280-511) expressed in E. Coli.

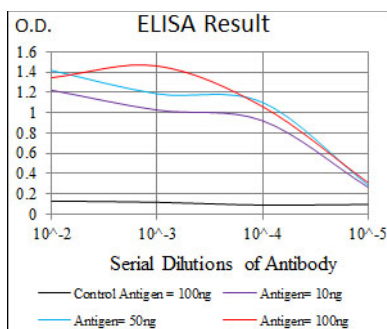
**Background**

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

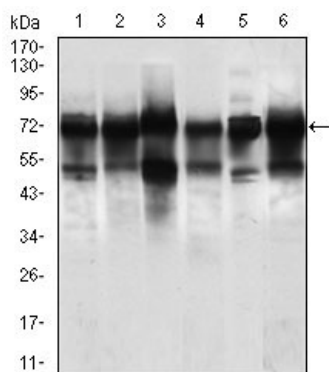
the phenotype of the WHS or Pitt-Rogers-Danks syndrome. The encoded protein is found to be capable of reacting with HLA-A2-restricted and tumor-specific cytotoxic T lymphocytes, suggesting a target for use in specific immunotherapy for a large number of cancer patients. This protein has also been shown to be a member of the NELF (negative elongation factor) protein complex that participates in the regulation of RNA polymerase II transcription elongation.

## Research Area

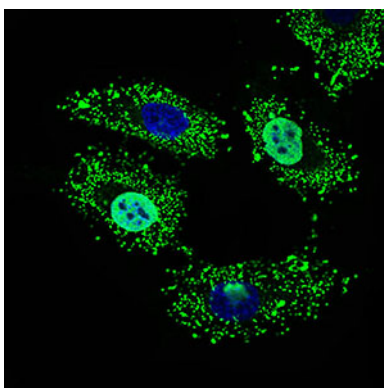
## Image Data



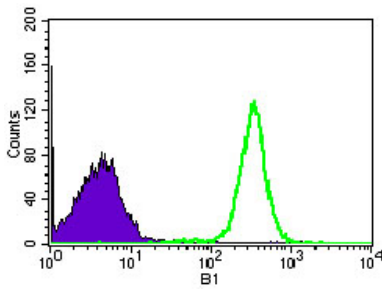
Red: Control Antigen (100ng), Purple: Antigen (10ng), Green: Antigen (50ng), Blue: Antigen (100ng)



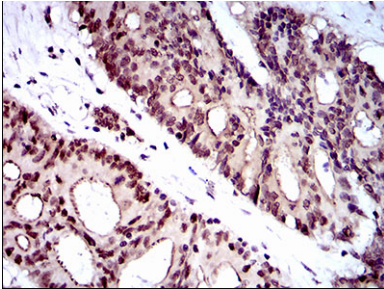
Western blot analysis using wsc2 mouse mAb against Jurkat(1), HeLa (2), HEK293 (3), 4549 (51SPC-A-1 (6) cell lysate, and Rat brain(4) tissue lysate.



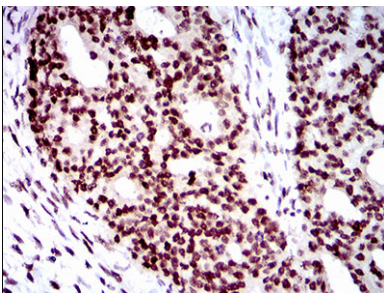
Immunofluorescence analysis of HeLa cells using WHSC2 mouse mAb (green). Blue: DAA05 fluorescent DNA dye.



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



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



Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using WHSC2 mouse mAb with DAB staining