



## Mouse anti Sgt-1A Monoclonal Antibody

Alternative Name(s): Sgt-1A, SUGT1A, HsSGT1A,

### Order Information

- **Description:** Sgt-1A
- **Catalogue:** 606-240
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 5B12F5
- **Application:** IHC(P)
- **Reactivity:** Hu

### **ANTIGEN PREPARATION**

A recombinant protein Sgt A

### **BACKGROUND**

This gene encodes a highly conserved nuclear protein involved in kinetochore function and required for the G1/S and G2/M transitions. Human Sgt1 (Suppressor of the G2 allele of Skp1) has been found to have two isoforms: Sgt-1A and Sgt-1B. This protein interacts with heat shock protein 90. Sgt1 protein translocates to the nucleus due to heat shock and the Ca(2+)-bound form of S100A6 is required for Sgt1 translocation. S100A6-Ca(2+)-mediated Sgt1 dephosphorylation promotes its nuclear translocation, most likely due to disruption of the Sgt1-Hsp90 complex. SUGT1(Sgt-1) protein expression was shown in lung, testis, liver, and brain. It is overexpressed in human colorectal cancer.

### **PURIFICATION**

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes human Sgt-1A protein. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

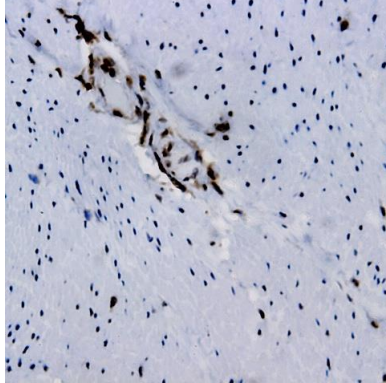
- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 40.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

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**DATA ATTACHMENTS**



Immunohistochemistry: Human testis tissue (FFPE) stained with Mouse anti-ugt-1A (Cat# 606-240) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

**REFERENCES**

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