

**MSH5 Antibody (monoclonal) (M08)****Mouse monoclonal antibody raised against a partial recombinant MSH5.****Catalog # AT2911a****Specification**

---

**MSH5 Antibody (monoclonal) (M08) - Product Information**

Application	IF, WB, E
Primary Accession	<a href="#">O43196</a>
Other Accession	<a href="#">BC002498</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	92875

**MSH5 Antibody (monoclonal) (M08) - Additional Information****Gene ID** 4439**Other Names**

MutS protein homolog 5, hMSH5, MSH5

**Target/Specificity**

MSH5 (AAH02498, 736 a.a. ~ 835 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

MSH5 Antibody (monoclonal) (M08) is for research use only and not for use in diagnostic or therapeutic procedures.

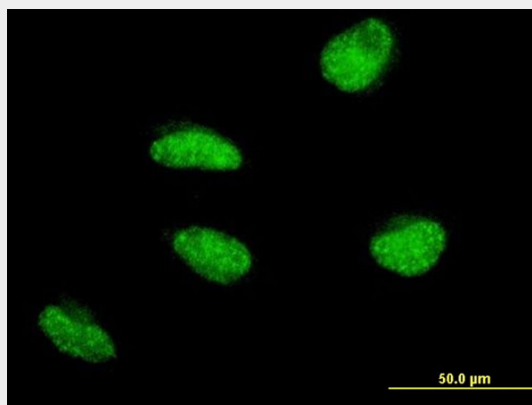
**MSH5 Antibody (monoclonal) (M08) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

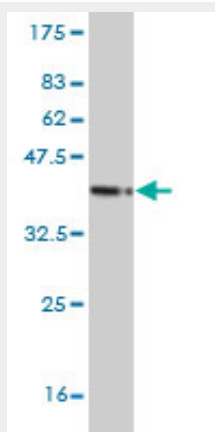
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

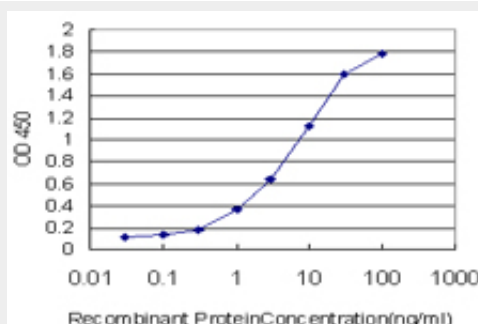
### MSH5 Antibody (monoclonal) (M08) - Images



Immunofluorescence of monoclonal antibody to MSH5 on HeLa cell . [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .



Detection limit for recombinant GST tagged MSH5 is approximately 0.1ng/ml as a capture antibody.

### MSH5 Antibody (monoclonal) (M08) - Background

This gene encodes a member of the mutS family of proteins that are involved in DNA mismatch

repair and meiotic recombination. This protein is similar to a *Saccharomyces cerevisiae* protein that participates in segregation fidelity and crossing-over events during meiosis. This protein plays a role in promoting ionizing radiation-induced apoptosis. This protein forms heterooligomers with another member of this family, mutS homolog 4. Polymorphisms in this gene have been linked to various human diseases, including IgA deficiency, common variable immunodeficiency, and premature ovarian failure. Alternative splicing results multiple transcript variants.

#### **MSH5 Antibody (monoclonal) (M08) - References**

1.Spermatogenesis-specific association of SMCY and MSH5.Akimoto C, Kitagawa H, Matsumoto T, Kato S.Genes Cells. 2008 Jun;13(6):623-33. Epub 2008 May 4.