

RNF168 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant RNF168.****Catalog # AT3669a****Specification**

RNF168 Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, IF
Primary Accession	Q8IYW5
Other Accession	NM_152617
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	65020

RNF168 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 165918**Other Names**

E3 ubiquitin-protein ligase RNF168, hRNF168, 632-, RING finger protein 168, RNF168

Target/Specificity

RNF168 (NP_689830, 462 a.a. ~ 571 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IHC~~1:100~500

IF~~1:50~200

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

RNF168 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

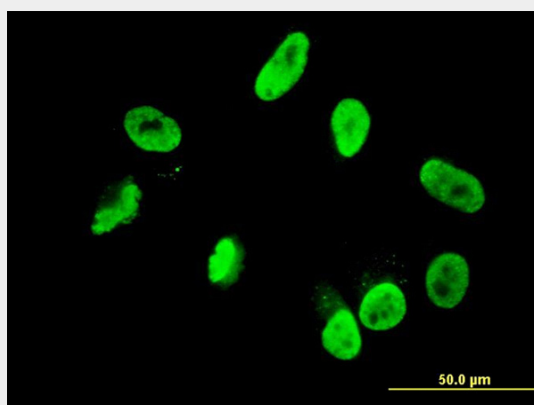
RNF168 Antibody (monoclonal) (M01) - Protocols

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

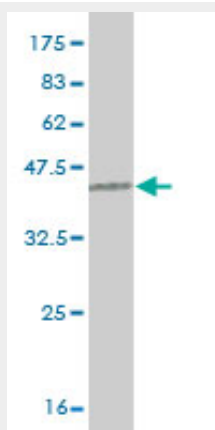
- [Western Blot](#)
- [Blocking Peptides](#)

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

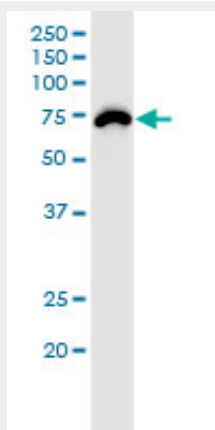
RNF168 Antibody (monoclonal) (M01) - Images



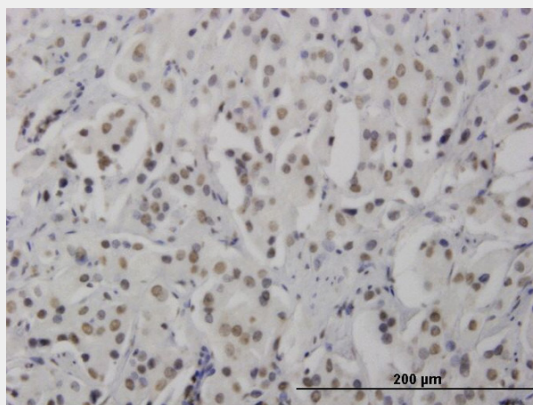
Immunofluorescence of monoclonal antibody to RNF168 on HepG2 cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .



RNF168 monoclonal antibody (M01), clone 3E1 Western Blot analysis of RNF168 expression in HepG2 (Cat # AT3669a)



Immunoperoxidase of monoclonal antibody to RNF168 on formalin-fixed paraffin-embedded human prostate cancer. [antibody concentration 1.5 ug/ml]

RNF168 Antibody (monoclonal) (M01) - Background

The complex repair response elicited by DNA double-strand breaks (DSBs) includes recruitment of several DNA repair proteins and ubiquitination of H2A-type histones (see MIM 142720). RNF168 is an E3 ubiquitin ligase critical for DSB repair (Stewart et al., 2009 [PubMed 19203578]).

RNF168 Antibody (monoclonal) (M01) - References

53BP1-dependent robust localized KAP-1 phosphorylation is essential for heterochromatic DNA double-strand break repair. Noon AT, et al. Nat Cell Biol, 2010 Feb. PMID 20081839. The RNF8/RNF168 ubiquitin ligase cascade facilitates class switch recombination. Ramachandran S, et al. Proc Natl Acad Sci U S A, 2010 Jan 12. PMID 20080757. A viral E3 ligase targets RNF8 and RNF168 to control histone ubiquitination and DNA damage responses. Lilley CE, et al. EMBO J, 2010 Mar 3. PMID 20075863. RNF168, a new RING finger, MIU-containing protein that modifies chromatin by ubiquitination of histones H2A and H2AX. Pinato S, et al. BMC Mol Biol, 2009 Jun 5. PMID 19500350. RNF168 binds and amplifies ubiquitin conjugates on damaged chromosomes to allow accumulation of repair proteins. Doil C, et al. Cell, 2009 Feb 6. PMID 19203579.