

**SYMPK Antibody (monoclonal) (M03)****Mouse monoclonal antibody raised against a full length recombinant SYMPK.****Catalog # AT4118a****Specification**

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**SYMPK Antibody (monoclonal) (M03) - Product Information**

Application	WB, IHC, IF, E
Primary Accession	<a href="#">Q92797</a>
Other Accession	<a href="#">BC030214</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	141148

**SYMPK Antibody (monoclonal) (M03) - Additional Information****Gene ID** 8189**Other Names**

Symplekin, SYMPK, SPK

**Target/Specificity**

SYMPK (AAH30214, 1 a.a. ~ 533 a.a) full-length 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

E~~N/A

**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**

SYMPK Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

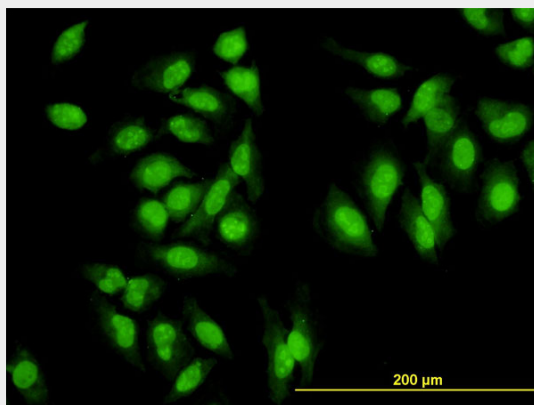
**SYMPK Antibody (monoclonal) (M03) - Protocols**

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

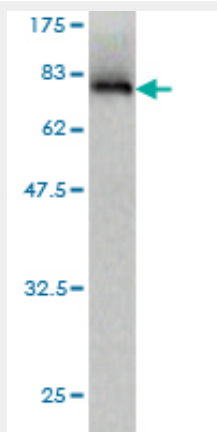
- [Western Blot](#)

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

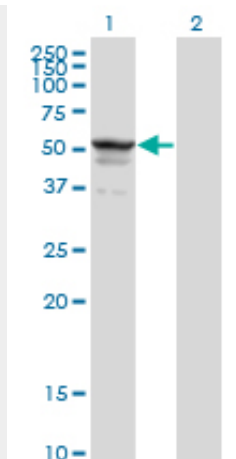
#### **SYMPK Antibody (monoclonal) (M03) - Images**



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



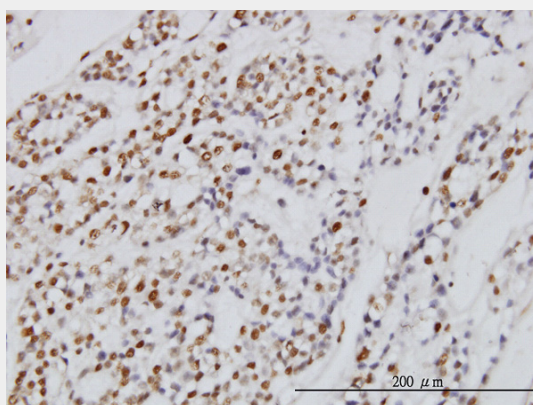
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (84.37 KDa) .



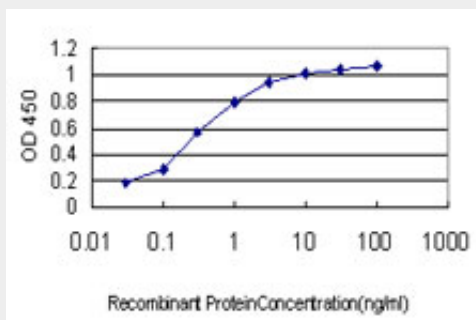
Western Blot analysis of SYMPK expression in transfected 293T cell line by SYMPK monoclonal antibody (M03), clone 4C2.

Lane 1: SYMPK transfected lysate(58.9 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to SYMPK on formalin-fixed paraffin-embedded human ovary, clear cell carcinoma. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged SYMPK is approximately 0.03ng/ml as a capture antibody.

### **SYMPK Antibody (monoclonal) (M03) - Background**

This gene encodes a nuclear protein that functions in the regulation of polyadenylation and promotes gene expression. The protein forms a high-molecular weight complex with components of the polyadenylation machinery. It is thought to serve as a scaffold for recruiting regulatory factors to the polyadenylation complex. It also participates in 3'-end maturation of histone mRNAs, which

do not undergo polyadenylation. The protein also localizes to the cytoplasmic plaques of tight junctions in some cell types.

### **SYMPK Antibody (monoclonal) (M03) - References**

Analysis of SNPs with an effect on gene expression identifies UBE2L3 and BCL3 as potential new risk genes for Crohn's disease. Fransen K, et al. Hum Mol Genet, 2010 Sep 1. PMID 20601676. Symplekin promotes tumorigenicity by up-regulating claudin-2 expression. Buchert M, et al. Proc Natl Acad Sci U S A, 2010 Feb 9. PMID 20133805. The symplekin/ZONAB complex inhibits intestinal cell differentiation by the repression of AML1/Runx1. Buchert M, et al. Gastroenterology, 2009 Jul. PMID 19328795. Conserved motifs in both CPSF73 and CPSF100 are required to assemble the active endonuclease for histone mRNA 3'-end maturation. Kolev NG, et al. EMBO Rep, 2008 Oct. PMID 18688255. Alteration of adhesion molecule expression and cellular polarity in hepatocellular carcinoma. Cao Y, et al. Histopathology, 2007 Oct. PMID 17880531.