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ZWINT Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a full-length recombinant ZWINT.
Catalog # AT4652a

Product Information

Application	WB, E
Primary Accession	O95229
Other Accession	BC020979
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1B7
Calculated MW	31293

Additional Information

Gene ID	11130
Other Names	ZW10 interactor, ZW10-interacting protein 1, Zwint-1, ZWINT
Target/Specificity	ZWINT (AAH20979, 1 a.a. ~ 277 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 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	ZWINT Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

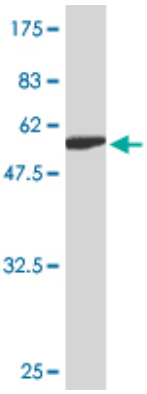
This gene encodes a protein that is clearly involved in kinetochore function although an exact role is not known. It interacts with ZW10, another kinetochore protein, possibly regulating the association between ZW10 and kinetochores. The encoded protein localizes to prophase kinetochores before ZW10 does and it remains detectable on the kinetochore until late anaphase. It has a uniform distribution in the cytoplasm of interphase cells. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

References

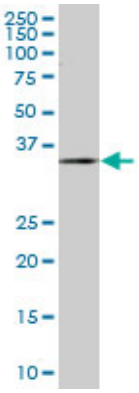
Single nucleotide polymorphisms in chromosomal instability genes and risk and clinical outcome of breast

cancer: a Swedish prospective case-control study. Brendle A, et al. Eur J Cancer, 2009 Feb. PMID 19008095.Stable hZW10 kinetochore residency, mediated by hZwint-1 interaction, is essential for the mitotic checkpoint. Famulski JK, et al. J Cell Biol, 2008 Feb 11. PMID 18268100.Association studies of 23 positional/functional candidate genes on chromosome 10 in late-onset Alzheimer's disease. Morgan AR, et al. Am J Med Genet B Neuropsychiatr Genet, 2007 Sep 5. PMID 17373700.Hec1 sequentially recruits Zwint-1 and ZW10 to kinetochores for faithful chromosome segregation and spindle checkpoint control. Lin YT, et al. Oncogene, 2006 Nov 2. PMID 16732327.ZW10 links mitotic checkpoint signaling to the structural kinetochore. Kops GJ, et al. J Cell Biol, 2005 Apr 11. PMID 15824131.

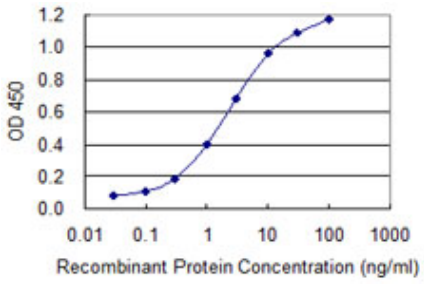
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (56.21 KDa) .



ZWINT monoclonal antibody (M04), clone 1B7. Western Blot analysis of ZWINT expression in K-562 ((Cat # AT4652a)



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