



CENP-M Polyclonal Antibody

Catalog No	YP-Ab-10869
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	IHC;IF;WB
Gene Name	CENPM C22orf18 ICEN39 PANE1
Immunogen	Synthesized peptide derived from human CENP-M AA range: 30-110
Specificity	This antibody detects endogenous levels of human CENP-M
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	IHC-p 1:50-200, WB 1:500-2000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ICEN39;Centromere protein M;CENP-M;CENP M;C22orf18;CENPM;CENPM C22orf18 ICEN39 PANE1;Centromere protein M (CENP-M;Interphase centromere complex protein 39;Proliferation-associated nuclear element protein 1)
Observed Band	20kD
Calculated Molecular Weight	20kD
Cell Pathway	Nucleus. Cytoplasm. Chromosome, centromere, kinetochore. Nuclear in non-confluent cells and cytoplasmic in confluent or dividing cells (By similarity). Localizes in the kinetochore domain of centromeres. .
Tissue Specificity	Isoform 3 is highly expressed in spleen, and intermediately in heart, prostate and ovary. Isoform 3 is highly expressed in resting CD19 B-cells and B-lineage chronic lymphocytic leukemia (B-CLL) cells and weakly expressed in activated B-cells. Isoform 1 is selectively expressed in activated CD19 cells and weakly in resting CD19 B-cells.
Function	function:Component of the CENPA-NAC (nucleosome-associated) complex, a complex that plays a central role in assembly of kinetochore proteins, mitotic progression and chromosome segregation. The CENPA-NAC complex recruits the CENPA-CAD (nucleosome distal) complex and may be involved in



incorporation of newly synthesized CENPA into centromeres.,subcellular location:Nuclear in non-confluent cells and cytoplasmic in confluent or dividing cells (By similarity). Localizes in the kinetochore domain of centromeres., subunit:Component of the CENPA-NAC complex, at least composed of CENPA, CENPC, CENPH, CENPM, CENPN, CENPT and MLF1IP/CENPU. The CENPA-NAC complex interacts with the CENPA-CAD complex, composed of CENPI, CENPK, CENPL, CENPO, CENPP, CENPQ, CENPR and CENPS.,tissue specificity:Isoform 3 is highly expressed in spleen, and intermediately in heart, prostate and ovary. Isoform 3 is highly exp

Background

The protein encoded by this gene is an inner protein of the kinetochore, the multi-protein complex that binds spindle microtubules to regulate chromosome segregation during cell division. It belongs to the constitutive centromere-associated network protein group, whose members interact with outer kinetochore proteins and help to maintain centromere identity at each cell division cycle. The protein is structurally related to GTPases but cannot bind guanosine triphosphate. A point mutation that affects interaction with another constitutive centromere-associated network protein, CENP-I, impairs kinetochore assembly and chromosome alignment, suggesting that it is required for kinetochore formation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015],

matters needing attention

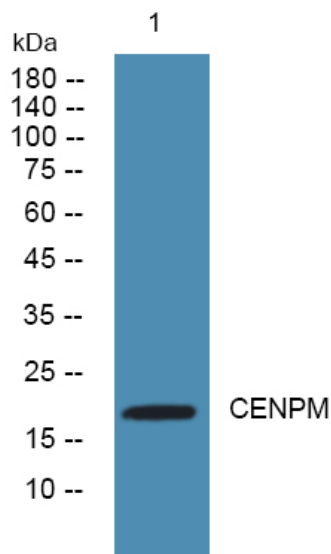
Avoid repeated freezing and thawing!

Usage suggestions

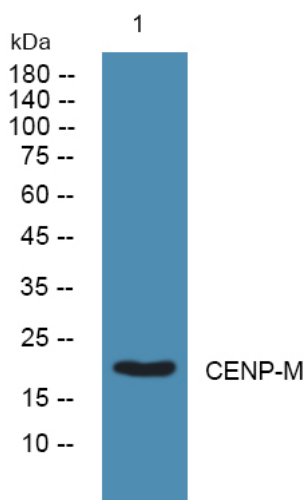
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



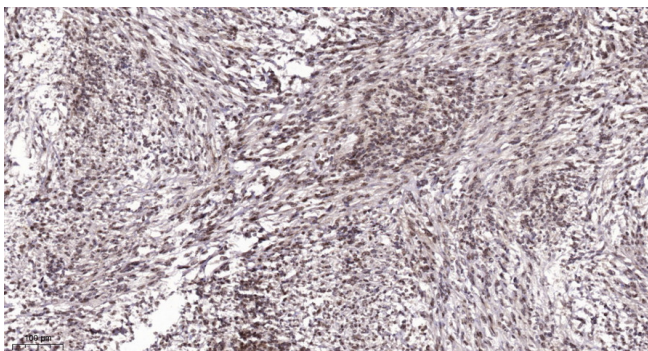
Products Images



Western blot analysis of lysates from SW480 cells, primary antibody was diluted at 1:1000, 4° over night



Western blot analysis of lysates from SH-SY5Y cells, primary antibody was diluted at 1:1000, 4° over night



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 45min).