Datasheet for ABIN401343

anti-MLF1IP antibody (Thr78)

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Overview

Quantity:	0.1 mg
Target:	MLF1IP
Binding Specificity:	Thr78
Reactivity:	Human, Cow, Dog, Chimpanzee
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA), Immunofluorescence (IF)

Product Details

Immunogen:	Synthetic peptide corresponding to amino acids surrounding Thr78 of human MLF1IP protein. The immunogen peptide is phosphorylated at Thr78
Isotype:	IgG
Specificity:	This antibody is specific for MLF1IP protein phosphorylated at Thr78.
Cross-Reactivity (Details):	Species reactivity (expected):Canine, Bovine, Chimpanzee, Rat, Mouse. Species reactivity (tested):Human.
Purification:	Affinity chromatography

Target Details

Target:	MLF1IP
Alternative Name:	MLF1IP (MLF1IP Products)

Target Details

Background:	Myeloid leukemia factor-1 (MLF1) Interacting Protein (also known as PBIP1, MLF1IP1, KLIP1 or KSHV latent nuclear antigen interacting protein 1) is a novel pololike kinase 1 (Plk1) substrate. Plk1 phosphorylation of MLF1IP induces ubiquitination and degradation of MLF1IP prior to the metaphase/ anaphase transition. Several Plk1-dependent phosphorylation sites have been identified on MLF1IP by mass spectrometry. Mutations of these sites stabilize MLF1IP and inhibit mitotic progression. Subsequent in vitro and in vivo MLF1IP phosphorylation and stability assays have revealed that phosphorylation of Thr78 is critical for triggering Plk1-dependent MLF1IP degradation. Expression of a non-degradable Thr78Ala mutant was sufficient to induce a mitotic block. Timely phosphorylation of MLF1IP on Thr78 by Plk1 is critical for eliminating the MLF1IP-imposed mitotic block prior to anaphase onset. MLF1IP is speculated to be a novel tumor suppressor, whose function is required for proper sister-chromatid separation. Loss of MLF1IP function may result in improper segregation of chromosomes and genomic instability, thus promoting tumorigenesis.Synonyms: CENP-U(50), CENPU, Centromere protein U, ICEN24, Interphase centromere complex protein 24, KLIP1, KSHV latent nuclear antigen-interacting protein 1, MLF1-interacting protein, PBIP, Polo-box-interacting protein 1
Gene ID:	79682
NCBI Accession:	NP_078905
UniProt:	Q71F23

Application Details

Application Notes:	ELISA: 1/5,000 - 1/25,000. Western Blot: 1/500 - 1/2,000. Immunocytochemistry: 1/100 - 1/500. Immunohistochemistry: 20 µg/mL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1.26 mg/mL (by UV absorbance at 280 nm)
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C

Images

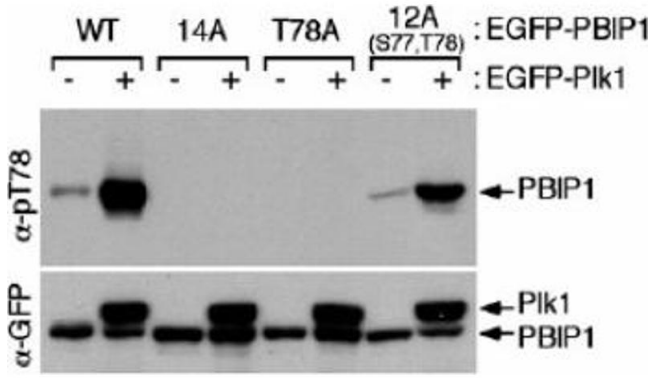

Image 1.

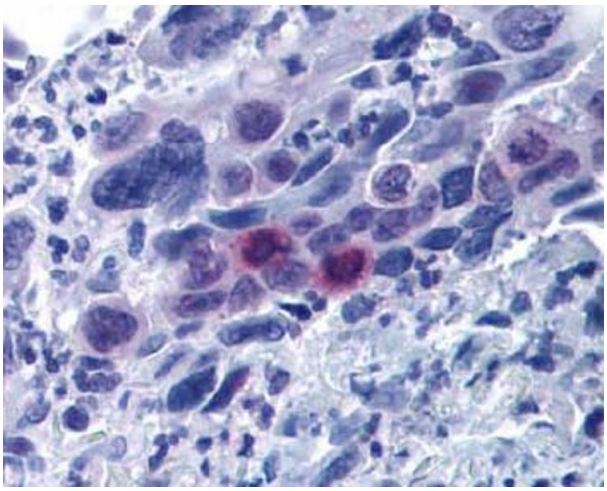

Image 2.

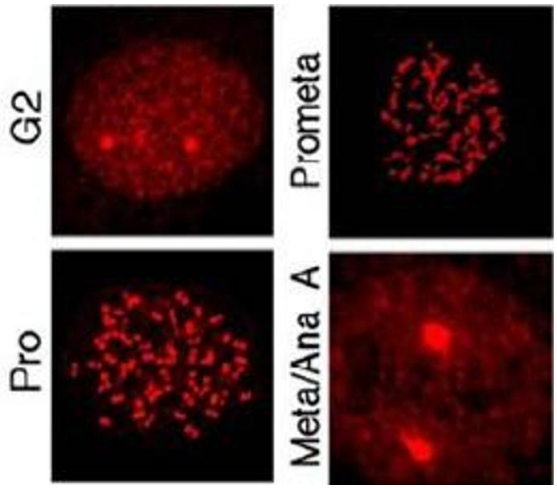

Image 3.