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Datasheet for ABIN129686 anti-MLF1 antibody (pThr78)

3 Images

1 Publication



Overview

Quantity:	100 µg
Target:	MLF1
Binding Specificity:	pThr78
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MLF1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA
Product Details	
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated
	immunizations with a synthetic peptide corresponding to amino acids surrounding Thr78 of
	human MLF1IP protein. The immunogen peptide is phosphorylated at Thr78.
Isotype:	IgG
Cross-Reactivity:	Dog (Canine), Sheep (Ovine), Chimpanzee
Characteristics:	Concentration Definition: by UV absorbance at 280 nm
Target Details	
Target:	MLF1
Alternative Name:	MIf1 (MLF1 Products)

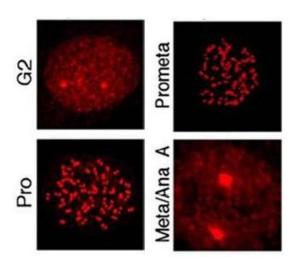
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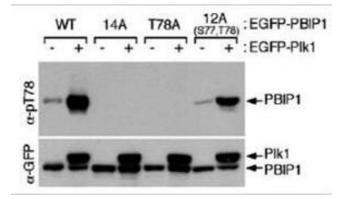
Target Details	
Background:	This antibody is designed, produced, and is suitable for Cancer, Immunology and Nuclear Signaling research. Myeloid leukemia factor-1 (MLF1) Interacting Protein (also known as PBIP1, MLF1IP1, KLIP1 or KSHV latent nuclear antigen interacting protein 1) is a novel polo-like 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, Synonyms: FLJ23468 antibody, HHV8 LNAIP1 antibody, ICEN24 antibody, Kaposi Sarcoma Herpesvirus latent nuclear antigen interacting protein 1 antibody
Gene ID:	79682, 38016935
UniProt:	Q71F23
Application Details	
Application Notes:	This affinity purified antibody has been tested for use in ELISA, western blotting and immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 65 kDa in size corresponding to MLF1IP protein by western blotting in the appropriately stimulated tissue, cell lysate or extract.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1.06 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

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Maloverjan, Piirsoo, Kasak, Peil, Østerlund, Kogerman: "Dual function of UNC-51-like kinase 3 (Ulk3) in the Sonic hedgehog signaling pathway." in: **The Journal of biological chemistry**, Vol. 285, Issue 39, pp. 30079-90, (2010) (PubMed).

Images





Immunofluorescence

Image 1. Immunostaining using affinity purified anti-MLF1IP pT78 antibody shows detection of MLF1IP pT78 at the kinetochores of HeLa cells in different phases of the cell cycle. Fluorescent signals were detectable at the kinetochores as early as G2, became most abundant in prophase cells with a discernible nuclear envelope, and gradually diminished as cells proceeded through mitosis (Kang & Park, et al., 2006).

Western Blotting

Image 2. Western blot using affinity purified anti-MLF1IP pT78 antibody shows detection of MLF1IP phosphorylated at Thr78. HeLa cells were co-infected with the indicated adenoviruses expressing GFP-tagged Plk1 or PBIP1. Blots were probed with the anti-MLF1IP pT78 antibody, stripped, and then reprobed with anti-GFP antibody (Kang & Park, et al., 2006).

Immunohistochemistry

Image 3. affinity purified anti-MLF1IP pT78 antibody was used at 20 ?g/ml to detect signal in a variety of tissues including multi-human, multi-brain and multi-cancer slides. This image shows moderately positive staining of mitotic cells in colon adenocarcinoma at 60X. Tissue was formalin-fixed and paraffin embedded. The image shows localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain. Personal

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Communi-cation, Tina Roush, LifeSpanBiosciences, Seattle, WA.

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