



MUM1 Polyclonal Antibody

Cat #: ABP57478

Size: 30µl /100µl /200µl

Product Information

	Product Name: MUM1 Polyclonal Antibody		
	Applications: WB, ELISA		Isotype: Rabbit IgG
	Reactivity: Human, Mouse, Rat		
REF	Catalog Number: ABP57478	LOT	Lot Number: Refer to product label
	Formulation: Liquid		Concentration: 1 mg/ml
	Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.		Note: Contain sodium azide.

Background: DNA double-strand breaks (DSBs) are potentially hazardous lesions that can be induced by ionizing radiation (IR), radiomimetic chemicals, or DNA replication inhibitors. Melanoma associated antigen (mutated) 1 (MUM1, EXPAND1) is a PWWP-domain containing chromatin binding protein involved in maintaining chromatin architecture of interphase chromosomes. In response to DNA damage, EXPAND1/MUM1 accumulates at sites of DNA double strand breaks through direct interaction with DNA repair factor 53BP1. Accumulation of EXPAND1/MUM1 at damaged DNA sites is thought to modify the structure of the chromatin and allow access to other DNA repair factors. 53BP1 activates the checkpoint kinase ATM and promotes DNA double strand break repair via nonhomologous end joining (NHEJ) repair pathway.

Application Notes: Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), ELISA (1:10000-1:20000).

Storage Buffer: PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.

Storage Instructions: Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

MOUSE-BRAIN

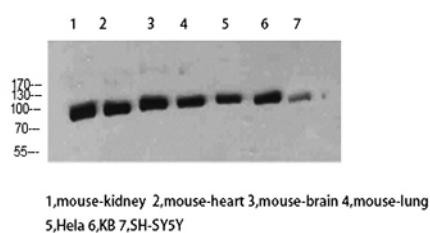


Fig. Western Blot analysis of Mouse-kidney Mouse-heart Mouse-brain cells using MUM1 Polyclonal Antibody diluted at 1:1000. Secondary antibody (catalog#: A21020) was diluted at 1:20000.

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