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eIF4A1 Monoclonal Antibody

Cat #: ABM0044 Size: 100μl

Product Information

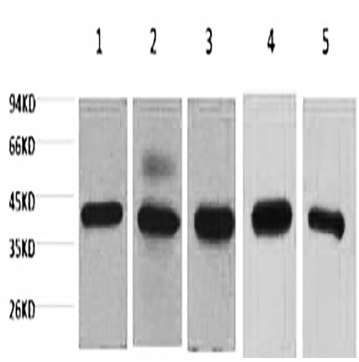
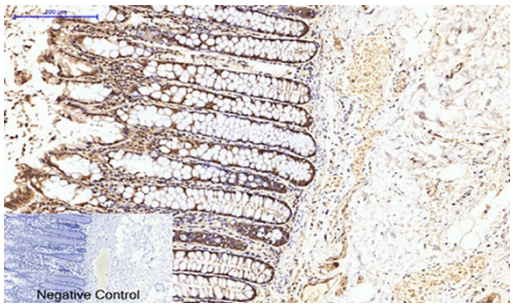
	Product Name: eIF4A1 Monoclonal Antibody		
	Applications: WB, IF, IHC-P		**Isotype:** Mouse IgG1
	Reactivity: Human, Mouse, Rat		
REF	**Catalog Number:** ABM0044	LOT	**Lot Number:** Refer to product label
	Formulation: Liquid		**Concentration:** 1 mg/ml
	Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.		**Note:** Contain sodium azide.

Background: eIF4A1 is a 406 amino acid ATP-dependent RNA helicase belonging to the DEAD box helicase family and eukaryotic initiation factor-4A subfamily with a helicase ATP-binding domain and a helicase C-terminal domain. eIF4F eukaryotic translation initiation complex is formed by the association of eIF4A1 with eIF4E and eIF4E kinase (MNK1), eIF4B, eIF4G, PABPC1. It is closely related to eIF4A2. eIF4A1 is a eukaryotic translation initiation factor involved in protein translation/synthesis where it helps in unwinding the secondary structure of RNA in the 5'-UTR of mRNAs, cap recognition, and is necessary for efficient binding mRNA to the 40S small ribosomal subunit, as well as subsequent scanning for the initiator codon. Ubiquitous expression of the enzyme eIF4A1 is seen in most tissues.

Application Notes: Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:1000-1:3000), IF (1:100-1:200), IHC-P (1:50-1:300).

Storage Buffer: PBS, pH 7.4, containing 0.02% Sodium Azide as preservative and 50% Glycerol.

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.

	Fig.1. Western blot analysis of 1) 293T, 2) Hela, 3) HepG2, 4) mouse brain tissue.
	Fig.2. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue. 1, eIF4A1 Monoclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.