Datasheet for ABIN6143505

anti-MAP4 antibody (AA 942-1152)

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Overview

Quantity:	100 µL
Target:	MAP4
Binding Specificity:	AA 942-1152
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 942-1152 of human MAP4 (NP_002366.2).
Sequence:	TENIKHQPGG GRAKVEKKTE AAATTRKPES NAVTKTAGPI ASAQKQPAGK VQIVSKKVSY SHIQSKCGSK DNIKHVPGGG NVQIQNKKVD ISKVSSKCGS KANIKHKPGG GDVKIESQKL NFKEKAQAKV GSLDNVGHLP AGGAVKTEGG GSEAPLCPGP PAGEEPAISE AAPEAGAPTS ASGLNGHPTL SGGGDQREAQ TLDSQIQETS I
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Polyclonal Antibodies

Target Details

Target:	MAP4
Alternative Name:	MAP4 (MAP4 Products)
Background:	The protein encoded by this gene is a major non-neuronal microtubule-associated protein. This protein contains a domain similar to the microtubule-binding domains of neuronal microtubule-associated protein (MAP2) and microtubule-associated protein tau (MAPT/TAU). This protein promotes microtubule assembly, and has been shown to counteract destabilization of interphase microtubule catastrophe promotion. Cyclin B was found to interact with this protein, which targets cell division cycle 2 (CDC2) kinase to microtubules. The phosphorylation of this protein affects microtubule properties and cell cycle progression. Multiple transcript variants encoding different isoforms have been found for this gene.,MAP4,Epigenetics & Nuclear Signaling,RNA Binding,Signal Transduction,Cell Biology & Developmental Biology,Cell Cycle,Cyclins,Cytoskeleton,Microtubules,MAP4
Molecular Weight:	10 kDa/58 kDa/85 kDa/91 kDa/102 kDa/119 kDa/121 kDa
Gene ID:	4134
UniProt:	P27816
Pathways:	p53 Signaling, Microtubule Dynamics

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
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
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

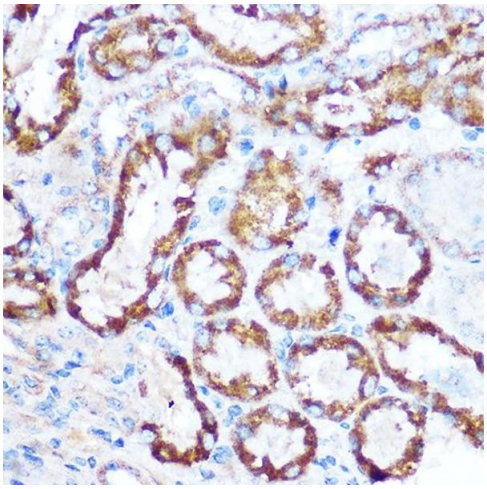
Publications

Product cited in:

Kumar, Wang, Liu, Ding, Dong, Zheng, Ye, Liu: "Hypoxia-Induced Mitogenic Factor Promotes Cardiac Hypertrophy via Calcium-Dependent and Hypoxia-Inducible Factor-1α Mechanisms." in: **Hypertension (Dallas, Tex. : 1979)**, Vol. 72, Issue 2, pp. 331-342, (2018) (PubMed).

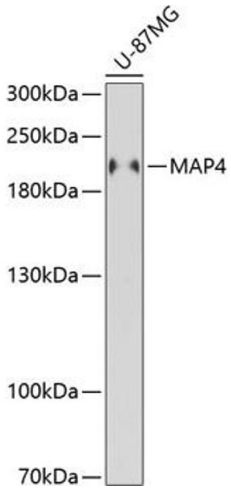
Fan, Long, Yan, Wang, Shi, Bao, Hu, Li, Chen, Zheng, Yan: "Dietary leucine supplementation alters energy metabolism and induces slow-to-fast transitions in longissimus dorsi muscle of weanling piglets." in: **The British journal of nutrition**, Vol. 117, Issue 9, pp. 1222-1234, (2017) (PubMed).

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded mouse kidney using M Rabbit pAb (ABIN6130539, ABIN6143505, ABIN6143506 and ABIN6221614) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of U-87MG cells, using M antibody (ABIN6130539, ABIN6143505, ABIN6143506 and ABIN6221614) at 1:3000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 90s.