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PRODUCT DATASHEET

Anti-APC (Central region) Antibody

phosphosolutions ANTIBODIES THAT WORK

Product Details

Available Variants	100 µL (SKU:AM5021)
Conjugate	Unconjugated
Isotype	IgG2a
Clone	KT44
Gene Name	APC
Host Species	Rat
Format	Protein G Purified
Physical State	Liquid
Buffer	PBS + 0.05% NaN3
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:250 ICC: 1:50
Species Reactivity	Human, Mouse, Rat
Immunogen	Clone KT44 was generated from a recombinant protein containing amino acid residues from the central region mouse APC. This sequence is highly conserved in human and rat APC, and has low homology to APC2.
Specificity	This antibody detects full length APC at 300 kDa* and proteolytic fragments of APC at lower molecular weights. The antibody detects APC or its fragments in SW480, CaCO2, DLD-1, and Hct116 cells. In immunocytochemistry, the antibody detects in APC in clusters at the plasma membrane and at the ends of microtubules.
Molecular Weight	300
Quality Control	Western blots performed on each lot.

Storage	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 uL/vial depending on usage) upon arrival and stored long term at -20° C or -80° C, while keeping a working aliquot stored at 4° C for short term. Avoid freeze/thaw cycles. Stable for at least 1 year.
UniProt ID	Q61315 UniProt Summary: Tumor suppressor. Promotes rapid degradation of CTNNB1 and participates in Wnt signaling as a negative regulator. APC activity is correlated with its phosphorylation state. Activates the GEF activity of SPATA13 and ARHGEF4. Plays a role in hepatocyte growth factor (HGF)-induced cell migration. Required for MMP9 up-regulation via the JNK signaling pathway in colorectal tumor cells. Associates with both microtubules and actin filaments, components of the cytoskeleton. Plays a role in mediating the organization of F-actin into ordered bundles. Functions downstream of Rho GTPases and DIAPH1 to selectively stabilize microtubules. Acts as a mediator of ERBB2-dependent stabilization of microtubules at the cell cortex. It is required for the localization of MACF1 to the cell membrane and this localization of MACF1 is critical for its function in microtubule stabilization.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	324