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[Primary Antibody]

Recombinant Rabbit Anti-PIK3CA Monoclonal Antibody

Catalog Number: SLA0772M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Mouse
Isotype:	IgG2b/Kappa
Clonality:	Monoclonal
Clone No.:	8H1
SWISS:	P42336
Target:	PIK3CA
Immunogen:	Synthesized peptide derived from human PIK3CA H1047R
Purification:	affinity purified by Protein G
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ELISA (1:5000-10000) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human
Predicted MW.:	124 kDa
Background:	The PIK3CA gene is located at 3Q26.3 and encodes a 124 kDa protein. The protein is composed of 85 kDa regulatory subunit and 110 kDa catalytic subunit. The most common mutations of PIK3CA occur in exon 9 and exon 20. H1047R , one of the most common mutations occurs in exon 20. PIK3CA plays an important role in the PI3K/AKT/mTOR signaling pathway , which can be activated by this mutation , closely related to the occurrence of tumors and disease progression. In non-small cell lung cancer , H1047R mutantion can phosphorylate Akt and activate downstream pathways to promote the survival and expansion of tumor cells.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.