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Built Around Immunology

Anti-NRAS Rabbit mAb [03H82]

Catalog No.: A52245

Basic Information

Catalog No. (Cat.No.)	A52245
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	NRAS,NRAS proto-oncogene,gsp oncogene

Product Information

Target	NRAS
Molecular Weight(Calculated)	22 kDa
Molecular Weight(Observed)	22 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	03H82
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	NRAS proto-oncogene, GTPase
Gene Name	*NRAS*
Domain	NA
Background	NRAS (NRAS proto-oncogene, GTPase) belongs to RAS small-GTPase family and functions as molecular switch governing proliferation and survival signaling. GTP-bound NRAS is active and triggers downstream RAF-MEK-ERK and PI3K cascades; GTP hydrolysis converts it into GDP-bound inactive conformation. Somatic point mutations (e.g. Q61) impair intrinsic GTPase activity and lock NRAS in constitutively active state, driving melanoma, leukemia and thyroid carcinoma. Wild-type NRAS responds to growth-factor cues and orchestrates normal cell-cycle progression. NRAS shares partial functional redundancy with KRAS and HRAS yet exhibits tissue-specific mutation profiles; NRAS-mutated tumors display distinct prognosis and therapeutic response compared with other RAS isoforms.