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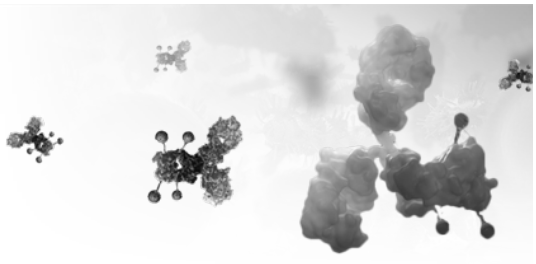

Rat Anti-Mouse v-H-Ras Monoclonal antibody, clone Y13-238 (CABT-L4428)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The Y13-238 monoclonal antibody reacts with human, mouse, and rat v-H-ras (within amino acids 120-138) and does not react with v-K-ras. v-H-ras binds GTP/GDP and has intrinsic GTPase activity.
Target	Mouse/Human/Rat v-H-Ras
Immunogen	Harvey murine sarcoma virus infected NRK cells
Isotype	IgG2a
Source/Host	Rat
Species Reactivity	Human, Rat, Mouse
Clone	Y13-238
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	IP
Molecular Weight	150 kDa
Format	0.2 µM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg

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Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/µg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The Y13-238 monoclonal antibody reacts with human, mouse, and rat v-H-ras (within amino acids 120-138) and does not react with v-K-ras. v-H-ras binds GTP/GDP and has intrinsic GTPase activity. Ras proteins alternate between an inactive form bound to GDP and an active form bound to GTP, activated by a guanine nucleotide-exchange factor (GEF) and inactivated by a GTPase-activating protein (GAP). Under normal conditions, Ras family members influence cell growth and differentiation events. Mutations in the Ras family of proto-oncogenes are very common, being found in 20% to 30% of all human tumors. Ras point mutations are the single most common abnormality of human proto-oncogenes. The Y13-238 antibody does not neutralize ras GTPase binding and hydrolysis in vivo or in vitro.
Keywords	KRAS;Kirsten rat sarcoma viral oncogene homolog;NS;NS3;CFC2;KRAS1;KRAS2;RASK2;KI-RAS;C-K-RAS;K-RAS2A;K-RAS2B;K-RAS4A;K-RAS4B

GENE INFORMATION

Official Symbol	Kirsten rat sarcoma viral oncogene homolog
Synonyms	KRAS; Kirsten rat sarcoma viral oncogene homolog; NS; NS3; CFC2; KRAS1; KRAS2; RASK2; KI-RAS; C-K-RAS; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B
References	Dhillon, A. S., et al. (2009). "The C-terminus of Raf-1 acts as a 14-3-3-dependent activation switch." Cell Signal 21(11): 1645-1651. PubMed;

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