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KRAS Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant KRAS.
Catalog # AT2650a

Product Information

Application	WB, IF, E
Primary Accession	P01116
Other Accession	BC013572
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	S2
Calculated MW	21656

Additional Information

Gene ID	3845
Other Names	GTPase KRas, K-Ras 2, Ki-Ras, c-K-ras, c-Ki-ras, GTPase KRas, N-terminally processed, KRAS, KRAS2, RASK2
Target/Specificity	KRAS (AAH13572, 1 a.a. ~ 188 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	KRAS Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

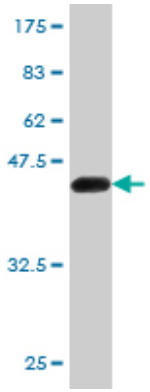
This gene, a Kirsten ras oncogene homolog from the mammalian ras gene family, encodes a protein that is a member of the small GTPase superfamily. A single amino acid substitution is responsible for an activating mutation. The transforming protein that results is implicated in various malignancies, including lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas and colorectal carcinoma. Alternative splicing leads to variants encoding two isoforms that differ in the C-terminal region.

References

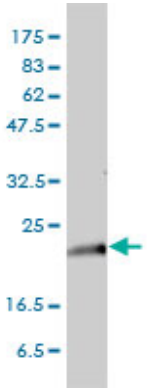
1.Evidence for aldosterone-dependent growth of renal cell carcinoma.King S, Bray S, Galbraith S, Christie L,

Fleming SInt J Exp Pathol. 2014 May 7. doi: 10.1111/iep.12074.2.KRAS gene amplification in colorectal cancer and impact on response to EGFR-targeted therapy.Valtorta E, Misale S, Sartore-Bianchi A, Nagtegaal ID, Paraf F, Lauricella C, Dimartino V, Hobor S, Jacobs B, Ercolani C, Lamba S, Scala E, Veronese S, Laurent-Puig P, Siena S, Tejpar S, Mottolese M, Punt CJ, Gambacorta M, Bardelli A, Di Nicolantonio FInt J Cancer. 2013 Feb 12. doi: 10.1002/ijc.28106.3.Analysis of k-ras nuclear expression in fibroblasts and mesangial cells.Fuentes-Calvo I, Blazquez-Medela AM, Santos E, Lopez-Novoa JM, Martinez-Salgado C.PLoS One. 2010 Jan 14;5(1):e8703.

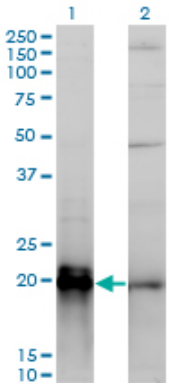
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (46.42 KDa) .

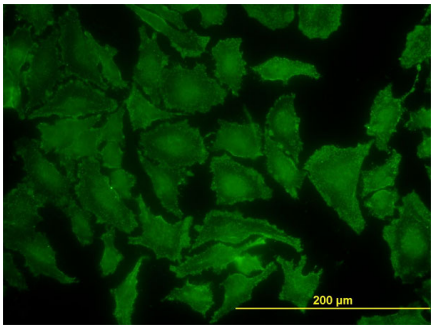


KRAS monoclonal antibody (M01), clone 3B10-2F2
Western Blot analysis of KRAS expression in HeLa ((Cat # AT2650a)

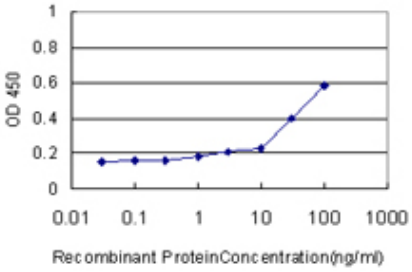


Western Blot analysis of KRAS expression in transfected 293T cell line by KRAS monoclonal antibody (M01), clone 3B10-2F2.

Lane 1: KRAS transfected lysate(21 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to KRAS on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged KRAS is approximately 1ng/ml as a capture antibody.

Citations

- p66(Shc) restrains Ras hyperactivation and suppresses metastatic behavior.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.