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WNK2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant WNK2.
Catalog # AT4541a

Product Information

Application	WB, IHC, E
Primary Accession	Q9Y3S1
Other Accession	NM_006648
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2E11
Calculated MW	242676

Additional Information

Gene ID	65268
Other Names	Serine/threonine-protein kinase WNK2, Antigen NY-CO-43, Protein kinase lysine-deficient 2, Protein kinase with no lysine 2, Serologically defined colon cancer antigen 43, WNK2, KIAA1760, PRKWNK2, SDCCAG43
Target/Specificity	WNK2 (NP_006639, 2118 a.a. ~ 2217 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 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	WNK2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

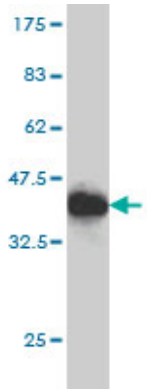
The protein encoded by this gene is a cytoplasmic serine-threonine kinase that contains cysteine in place of the lysine found at the conserved ATP-binding location in subdomain II of protein kinases. Since this protein does have kinase activity, it is possible that another lysine in the kinase subdomain I can substitute for the missing conserved lysine.

References

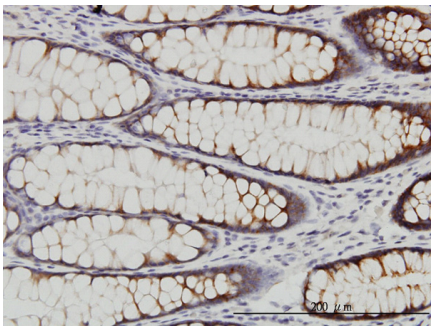
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype

score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Association of genetic variants with hemorrhagic stroke in Japanese individuals. Yoshida T, et al. Int J Mol Med, 2010 Apr. PMID 20198315. Assessment of a polymorphism of SDK1 with hypertension in Japanese Individuals. Oguri M, et al. Am J Hypertens, 2010 Jan. PMID 19851296. Association of gene polymorphisms with chronic kidney disease in Japanese individuals. Yoshida T, et al. Int J Mol Med, 2009 Oct. PMID 19724895. Epigenetic silencing of the kinase tumor suppressor WNK2 is tumor-type and tumor-grade specific. Jun P, et al. Neuro Oncol, 2009 Aug. PMID 19001526.

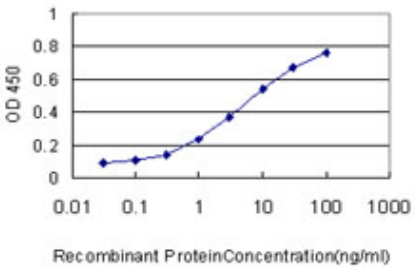
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



Immunoperoxidase of monoclonal antibody to WNK2 on formalin-fixed paraffin-embedded human colon. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged WNK2 is approximately 0.1ng/ml as a capture antibody.