

#2440
Store at -20C

Mig6 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	51	Rabbit	#Q9UJM3	54206

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Mig6 Antibody detects endogenous levels of total Mig6 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val195 of human Mig6. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Mig6 was identified as a gene which is induced when quiescent fibroblasts are treated by mitogens (1). During cell cycle progression, Mig6 expression levels are also regulated (1). Mig6 mRNA levels were found to increase upon stimulation by chronic stresses including diabetic nephropathy (2). Overexpression of this gene leads to the activation of stress-activated protein kinases (SAPKs)/c-Jun amino-terminal kinases (JNKs) (2). Furthermore, Mig6 was found to interact with epidermal growth factor receptor (EGFR) when stimulated by epidermal growth factor (EGF) (3). Deletion of the Mig6 gene in mice results in hyperactivation of EGFR and signaling through the mitogen-activated protein kinase (MAPK) pathway, causing overproliferation and abnormal differentiation of epidermal keratinocytes in these animals. Inhibition of endogenous EGFR signaling by Iressa abolished skin defects observed in Mig6(-/-) mice, indicating that Mig6 is a specific negative regulator of EGFR signaling (4). Furthermore, expression of Mig6 was significantly lower in skin, breast, pancreatic and ovarian cancers, suggesting a role of Mig6 as a tumor suppressor (4).	
Background References	1. Wick, M. et al. (1995) <i>Exp. Cell Res.</i> 219, 527-535. 2. Makkinje, A. et al. (2000) <i>J. Biol. Chem.</i> 275, 17838-17847. 3. Hackel, P.O. et al. (2001) <i>Biol. Chem.</i> 382, 1649-1662. 4. Ferby, I. et al. (2006) <i>Nat. Med.</i> 12, 568-573.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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