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FAM134B Antibody



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

Applications: W, IP	Reactivity:	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit	UniProt ID: #Q9H6L5	Entrez-Gene Id 54463
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		FAM134B Antibody recognizes endogenous levels of total FAM134B protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human FAM134B protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Family with sequence similarity 134, member B (FAM134B), also referred to as JK-1 and RETREG1, is a cis-Golgi endoplasmic reticulum (ER) transmembrane protein that plays a role in ER homeostasis and may contribute to several human diseases (1). FAM134B contains a conserved LC3-interacting domain (LIR) that facilitates binding to LC3 and GABARAP family members and targets impaired ER to the autophagosome for degradation by ER-phagy (2). Deletion of FAM134B leads to ER expansion and stress-induced apoptosis (2). Expression of FAM134B has been linked to a number of pathological conditions, including viral infection, cancer, and neuronal disorders (1). FAM134B can potentially inhibit viral infection, as demonstrated by studies of FAM134B knockouts that resulted in significantly higher rates of Ebola virus replication (3). Mutations in <i>FAM134B</i> that lead to an accumulation of misfolded proteins have also been associated with neuronal sensory disorders (2,4,5). The expression and mutational state of FAM134B can also have varying effects on cancer. The oncogenic effects of FAM134B were described in esophageal squamous carcinoma, whereas it appears to have tumor suppressor activity in colorectal cancer (6-8).				
Background References		 Islam, F. et al. (2018) J Cell Physiol 233, 4479-89. Khaminets, A. et al. (2015) Nature 522, 354-8. Chiramel, A.I. et al. (2016) J Infect Dis 214, S319-25. Murphy, S.M. et al. (2012) J Neurol Neurosurg Psychiatry 83, 119-20. Kurth, I. et al. (2009) Nat Genet 41, 1179-81. Tang, W.K. et al. (2007) Int J Mol Med 19, 915-23. Islam, F. et al. (2018) Genes Chromosomes Cancer 57, 240-51. Islam, F. et al. (2017) Hum Genet 136, 321-37. 				
Species Reactiv	ity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human				
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