

#2744 Store at -20°C

SPINK3 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	M R	Endogenous	10	Rabbit	#P09036	20730

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	SPINK3 Antibody detects endogenous levels of total SPINK3 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of the mouse SPINK3 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	The Kazal type 3 serine peptidase inhibitor (SPINK3) is a serine peptidase inhibitor expressed in the adult pancreas that protects acinar cells from trypsin-induced cell damage (1). Ingestion of milk by newborn SPINK3 knock out mice triggers autophagic cell death in pancreatic acinar cells and the complete disappearance of the pancreas (2). Mutations in the human SPINK3 homolog (known as SPINK1) are associated with chronic pancreatitis, presumably through decreased protection against trypsin-induced autophagic cell death (1,3). SPINK3 may be involved in the embryonic development of several other tissues (4).	
Background References	1. Whitcomb, D.C. et al. (1996) <i>Nat Genet</i> 14, 141-5. 2. Ohmuraya, M. et al. (2005) <i>Gastroenterology</i> 129, 696-705. 3. Hirota, M. et al. (2006) <i>J Gastroenterol</i> 41, 832-6. 4. Wang, J. et al. (2008) <i>Histochem Cell Biol</i> 130, 387-97.	

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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