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#2744 Store at -20C

SPINK3 Antibody

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

Applications: W	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 10	Source/Isotype: Rabbit	UniProt ID: #P09036	Entrez-Gene Id: 20730
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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

- Whitcomb, D.C. et al. (1996) *Nat Genet* 14, 141-5.
- Ohmuraya, M. et al. (2005) *Gastroenterology* 129, 696-705.
- Hirota, M. et al. (2006) *J Gastroenterol* 41, 832-6.
- Wang, J. et al. (2008) *Histochem Cell Biol* 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

W: Western Blotting

Cross-Reactivity Key

M: Mouse **R:** Rat

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