



Rabbit Anti-PIRT antibody

SL11623R

Product Name:	PIRT
Chinese Name:	磷酸肌醇相互作用蛋白抗体
Alias:	hCG_1776018; Phosphoinositide interacting regulator of transient receptor potential channels ; Phosphoinositide-interacting protein; Pirt; PIRT_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	15kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PIRT:51-137/137
Isotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	PIRT is a 137 amino acid multi-pass membrane protein. Highly conserved among vertebrates, PIRT consists of two transmembrane domains and one putative C-terminal phosphoinositide-binding domain. Although PIRT is expressed in peripheral nervous system, with highest levels in dorsal root ganglion and trigeminal neurons, and lowest levels in sympathetic and enteric neurons, it is not expressed in spinal cord. PIRT is a required component of the VR1 complex, which positively regulates VR1, a sensor of both noxious heat and capsaicin. Correspondingly, PIRT knockout results in impaired

responses to noxious heat and capsaicin exposure, while VR1 remains unaltered. The gene that encodes PIRT maps to human chromosome 17p13.1.

Function:

Regulatory subunit of TRPV1, a molecular sensor of noxious heat and capsaicin. Positively regulates TRPV1 channel activity via phosphatidylinositol-4,5-bisphosphate (PIP2). Binds various phosphoinositide, including phosphatidylinositol-4,5-bisphosphate (PIP2), but not phosphatidylinositol (PI).

Subunit:

Interacts with TRPV1

Subcellular Location:

Membrane; Multi-pass membrane protein

SWISS:

P0C851

Gene ID:

644139

Database links:

[Entrez Gene: 644139](#)Human

[Omid: 612068](#)Human

[SwissProt: P0C851](#)Human

[Unigene: 553909](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.