10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Tmem164 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14525

Product Information

Application	WB
Primary Accession	Q6PHN7
Other Accession	NM_177592, NP_808260
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33441

Additional Information

Gene ID	209497
Alias Symbol	AI316850, AI852450, AW547186, F730011B02
Other Names	Transmembrane protein 164, Tmem164
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Tmem164 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Tmem164 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

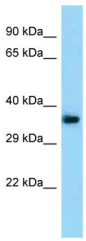
Name	Tmem164
Function	Positive regulator of ferroptosis. Involved in the acylation of ether lysophospholipids with the arachidonoyl chain (5Z,8Z,11Z,14Z-eicosatetraenoyl; C20:4) of diacylglycerophospholipids, generating C20:4 ether glycerophospholipids (ePEs) such as 1-(1Z-octadecenyl)-2-(5Z,8Z,11Z,14Z-eicosatetraenoyl)-sn-glycero-3-phosphoethanolamine (PE (P-18:0/20:4)), which promotes ferroptosis. Selectively mediates ATG5-dependent autophagosome formation during ferroptosis, rather than during starvation, and regulates the degradation of ferritin, GPX4 and lipid droplets to increase iron accumulation and lipid peroxidation, thereby promoting ferroptotic cell death.

Cellular Location	Membrane; Multi-pass membrane protein

References

Carninci P.,et al.Science 309:1559-1563(2005).

Images



WB Suggested Anti-Tmem164 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Kidney