

GLIPR1L1 Antibody

Catalog # ASC11744

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q6UWM5
Other Accession	NP_689992 , 22749527
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	27151
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	GLIPR1L1 antibody can be used for detection of GLIPR1L1 by Western blot at 1 - 2 μ g/ml. Antibody can also be used for Immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	256710
Other Names	GLIPR1-like protein 1, GLIPR1L1
Target/Specificity	GLIPR1L1; GLIPR1L1 antibody is human specific. At least two isoforms of GLIPR1L1 are known to exist; this antibody will detect both isoforms. This antibody is predicted to not cross-react with other GLIPR or GLIPR-like proteins.
Reconstitution & Storage	GLIPR1L1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	GLIPR1L1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GLIPR1L1
Function	Required for optimal fertilization at the stage of sperm- oocyte fusion, plays a role in optimizing acrosome function, the translocation of IZUMO1 during the acrosome reaction and the fertilization process. Component of epididymosomes, one type of membranous microvesicles which mediate the transfer of lipids and proteins to spermatozoa plasma membrane during epididymal maturation. Also component of the CD9-positive microvesicles found in the cauda region.
Cellular Location	Cytoplasmic vesicle, secretory vesicle, acrosome

{ECO:0000250|UniProtKB:Q9DAG6}. Cell membrane
 {ECO:0000250|UniProtKB:Q9DAG6}; Lipid-anchor, GPI-anchor; Extracellular side {ECO:0000250|UniProtKB:Q9DAG6}. Membrane raft
 {ECO:0000250|UniProtKB:Q32LB5}. Secreted
 {ECO:0000250|UniProtKB:Q9DAG6}. Note=Located in the connecting piece of elongated spermatids and sperm. Also located in the apical region of the sperm head after sperm capacitation (By similarity). Weakly attached to the cell membrane and later secreted into the extracellular space (By similarity). Located on sperm equatorial segment and neck (By similarity). Associated with epididymosomes from the caput and cauda epididymis (By similarity).
 {ECO:0000250|UniProtKB:Q32LB5, ECO:0000250|UniProtKB:Q9DAG6}

Tissue Location Highly expressed in testis.

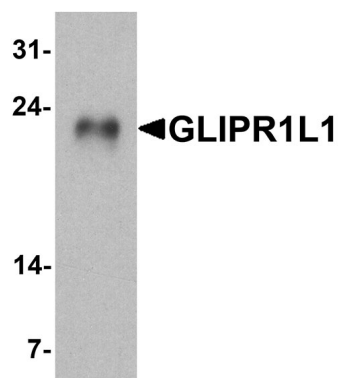
Background

The GLIPR1-like 1 protein (GLIPR1L1) gene is part of a p53 target gene cluster that includes the related proteins GLIPR1 and GLIPR1L2 (1). GLIPR1L1 is similar to both the pathogenesis-related protein (PR) superfamily and the cysteine-rich secretory protein (CRISP) family (2). GLIPR1 is a tumor suppressor whose expression is regulated by p53 (3). Unlike GLIPR1, GLIPR1L1 is expressed primarily in the testis and is thought to be involved in the binding of sperm to the oocyte complex (4).

References

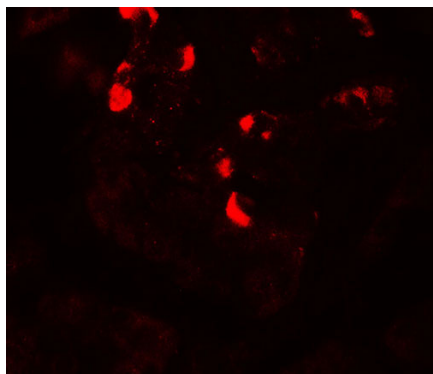
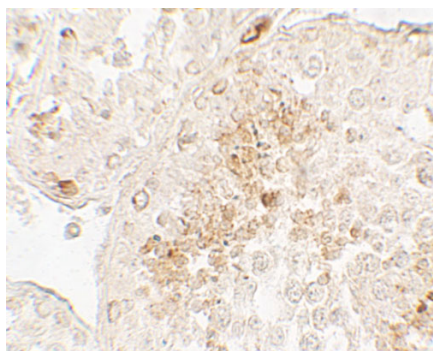
Ren C, Ren CH, Li L, et al. Identification and characterization of RTVP1/GLIPR1-like genes, a novel p53 target gene cluster. *Genomics* 2006; 88:163-72.
 Murphy EV, Zhang Y, Zhu W, et al. The human glioma pathogenesis-related protein is structurally related to pathogenesis-related proteins and its gene is expressed specifically in brain tumors. *Gene* 1995; 159:131-5.
 Ren C, Li L, Yang G, et al. RTVP-1, a tumor suppressor inactivated by methylation in prostate cancer. *Cancer Res.* 2004; 64:969-76.
 Gibbs GM, Lo JC, Nixon B, et al. Glioma pathogenesis-related 1-like 1 is testis enriched, dynamically modified, and redistributed during male germ cell maturation and has a potential role in sperm-oocyte binding. *Endocrinology* 2010; 151:2332-42.

Images



Western blot analysis of GLIPR1L1 in human testis tissue lysate with GLIPR1L1 antibody at 1 µg/ml.

Immunohistochemistry of GLIPR1L1 in human testis tissue with GLIPR1L1 antibody at 5 µg/mL.



Immunofluorescence of GLIPR1L1 in human testis tissue with GLIPR1L1 antibody at 20 $\mu\text{g/mL}$.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.