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PRTFDC1 Antibody

Catalog # ASC10754

Product Information

Application	WB, E
Primary Accession	Q9NRG1
Other Accession	NP_064585, 9910262
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	25674
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	PRTFDC1 antibody can be used for detection of PRTFDC1 by Western blot at 1 g/mL.

Additional Information

Gene ID	56952
Other Names	Phosphoribosyltransferase domain-containing protein 1, PRTFDC1, HHGP
Target/Specificity	PRTFDC1;
Reconstitution & Storage	PRTFDC1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	PRTFDC1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRTFDC1
Synonyms	HHGP
Function	Has low, barely detectable phosphoribosyltransferase activity (in vitro). Binds GMP, IMP and alpha-D-5-phosphoribosyl 1-pyrophosphate (PRPP). Is not expected to contribute to purine metabolism or GMP salvage.

Background

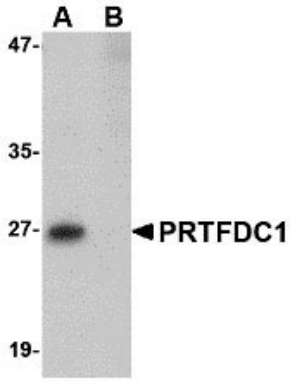
PRTFDC1 Antibody: Phosphoribosyl transferase domain containing 1 (PRTFDC1) is highly homologous to the

hypoxanthine phosphoribosyltransferase (HPRT1) and may have arisen from a gene duplication event of a common ancestor gene. Recently, it was shown that CpG islands in the PRTFDC1 promoter could be hypermethylated in ovarian cancers and oral squamous-cell carcinomas (OSCC), leading to gene silencing. Restoration of PRTFDC1 expression in OSCC inhibited cell growth in colony-formation assays, while knockdown of PRTFDC1 expression in OSCC that expressed the gene promoted cell growth. These results suggest that PRTFDC1 can act as a tumor-suppressor gene. At least three isoforms of PRTFDC1 are known to exist.

References

Nicklas JA. Pseudogenes of the human HPRT1 gene. Environ. Mol. Mutagen2006; 47:212-8.
Keebaugh AC, Sullivan RT, NISC Comparative Sequencing Program, et al. Gene duplication and inactivation in the HPRT gene family. Genomics2007; 89:134-42.
Cai LY, Abe M, Izumi S, et al. Identification of PRTFDC1 silencing and aberrant promoter methylation of GPR150, ITGA8 and HOXD11 in ovarian cancers. Life Sci.2007; 80:1458-65.
Suzuki E, Imoto I, Pimkhaokham A, et al. PRTFDC1, a possible tumor-suppressor gene, is frequently silenced in oral squamous-cell carcinoma by aberrant promoter hypermethylation. Oncogene2007; 26:7921-32.

Images



Western blot analysis of PRTFDC1 in human brain tissue lysate with PRTFDC1 antibody at 1 µg/mL in the (A) absence and (B) presence of blocking peptide.

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