

**PRTFDC1 Antibody**  
**Catalog # ASC10754****Specification**

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**PRTFDC1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9NRG1</a>
Other Accession	<a href="#">NP_064585</a> , <a href="#">9910262</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	PRTFDC1 antibody can be used for detection of PRTFDC1 by Western blot at 1 µg/mL.

**PRTFDC1 Antibody - Additional Information**

Gene ID	56952
Target/Specificity	
PRTFDC1;	

**Reconstitution & Storage**

PRTFDC1 antibody can be stored at 4°C for three months and -20°C, 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.

**PRTFDC1 Antibody - 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.

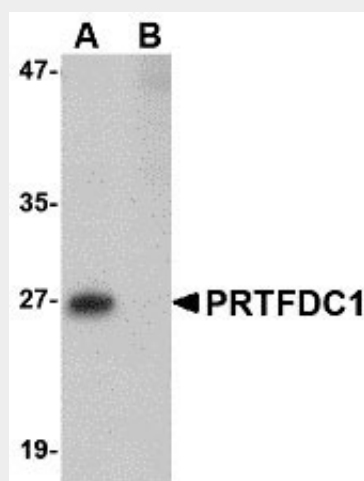
**PRTFDC1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **PRTFDC1 Antibody - 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.

### **PRTFDC1 Antibody - 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.

### **PRTFDC1 Antibody - References**

Nicklas JA. Pseudogenes of the human HPRT1 gene. *Environ. Mol. Mutagen* 2006; 47:212-8.  
Keebaugh AC, Sullivan RT, NISC Comparative Sequencing Program, et al. Gene duplication and inactivation in the HPRT gene family. *Genomics* 2007; 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. *Oncogene* 2007; 26:7921-32.