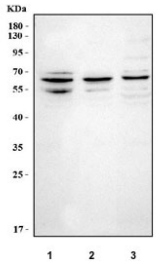
NT5DC2 Antibody / 5'-Nucleotidase domain containing 2 (RQ8452)

Catalog No.	Formulation	Size
RQ8452	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9H857
Applications	Western Blot : 0.5-1ug/ml ELISA : 0.1-0.5ug/ml
Limitations	This NT5DC2 antibody is available for research use only.



Western blot testing of human 1) SH-SY5Y, 2) Caco-2 and 3) K562 cell lysate with NT5DC2 antibody. Predicted molecular weight ~61/64/46 kDa (multiple isoforms).

Description

5'-Nucleotidase domain containing 2 (NT5DC2) is a member of the NT5DC family and contains a haloacid dehalogenase motif localized in the N-terminus of these proteins. NT5DC2 shows high sequence similarity with NT5C2. NT5C2 has received attention in the field of hematological neoplasms because NT5C2 mutations have been demonstrated to drive resistance to thiopurine, a drug frequently used to treat hematological neoplasms. NT5C2 catalyzes purine-nucleotide metabolism and induces chemotherapeutic resistance via excess export of purines to the extracellular space and depletion of the intracellular purine-nucleotide pool. Therefore, NT5DC2 may also participate in purine-nucleotide

metabolism and exert purine-nucleotide catalytic activity. NT5DC2 overexpression promotes HCC cell proliferation and clone formation by regulating the cell cycle and promoting tumor growth in subcutaneous xenografts, while NT5DC2 knockdown inhibits these processes. NT5DC2 is associated with attention-deficit/hyperactivity disorder and bipolar disorder. NT5DC2 interacts with tyrosine hydroxylase (TH) to regulate TH catalytic activity and thus regulate catecholamine synthesis. NT5DC2 has been shown to interact with and stabilize Fyn, an Src family proto-oncogene, and plays a role in regulating glioblastoma progression.

Application Notes

Optimal dilution of the NT5DC2 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (Q9-R520) was used as the immunogen for the NT5DC2 antibody.

Storage

After reconstitution, the NT5DC2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.