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Anti-NT5C1A Antibody

Catalog # AP60684

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9BXI3
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41021

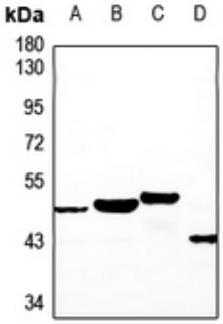
Additional Information

Gene ID	84618
Other Names	Cytosolic 5'-nucleotidase 1A; cN1A; Cytosolic 5'-nucleotidase IA; cN-I; cN-IA
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NT5C1A. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

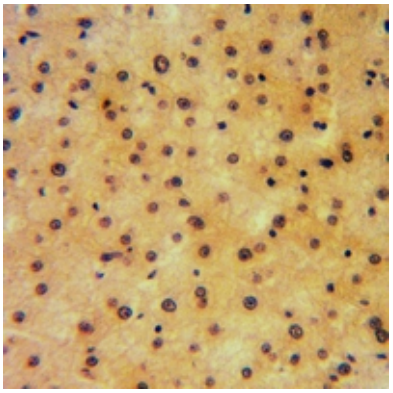
Protein Information

Name	NT5C1A
Function	Catalyzes the hydrolysis of ribonucleotide and deoxyribonucleotide monophosphates, releasing inorganic phosphate and the corresponding nucleoside (PubMed:11133996, PubMed:34814800, PubMed:7599155, PubMed:8967393). AMP is the major substrate but can also hydrolyze dCMP and IMP (PubMed:11133996, PubMed:34814800, PubMed:7599155, PubMed:8967393).
Cellular Location	Cytoplasm.
Tissue Location	Highly expressed in skeletal muscle. Detected at intermediate levels in heart, brain, kidney and pancreas

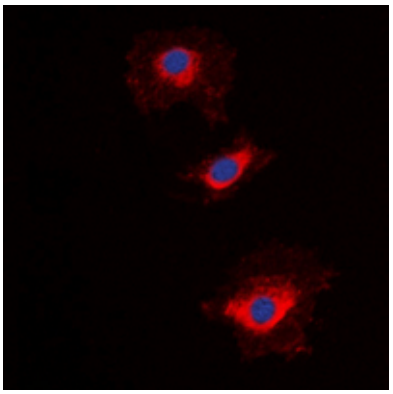
Images



Western blot analysis of NT5C1A expression in HCT116 (A), COS7 (B), mouse heart (C), PC12 (D) whole cell lysates. (Predicted band size: 41 kD; Observed band size: 41; 45 kD)



Immunohistochemical analysis of NT5C1A staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of NT5C1A staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).