

Recombinant Human CAP2, His-tagged

Cat. No. CAP2-10697H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAP2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	129-477a.a.
Description	The protein encoded by this gene is a cyclin-dependent kinase 2 (CDK2) -associated protein which is thought to negatively regulate CDK2 activity by sequestering monomeric CDK2, and targeting CDK2 for proteolysis. This protein was found to also interact with DNA polymerase alpha/primase and mediate the phosphorylation of the large p180 subunit, which suggests a regulatory role in DNA replication during the S-phase of the cell cycle. This protein also forms a core subunit of the nucleosome remodeling and histone deacetylation (NURD) complex that epigenetically regulates embryonic stem cell differentiation. This gene thus plays a role in both cell-cycle and epigenetic regulation. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

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GENE INFORMATION

Gene Name	CAP2 CAP, adenylate cyclase-associated protein, 2 (yeast) [Homo sapiens]
Official Symbol	CAP2
Synonyms	CAP2; CAP, adenylate cyclase-associated protein, 2 (yeast); adenylyl cyclase-associated protein 2; CAP 2; 2810452G09Rik;
Gene ID	10486
mRNA Refseq	NM_006366
Protein Refseq	NP_006357
UniProt ID	P40123
Chromosome Location	6p22.3
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Role of Abl in Robo-Slit signaling, organism-specific biosystem; Signaling by Robo receptor, organism-specific biosystem;
Function	actin binding; binding;

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