Polyclonal Anti-ATP5J (Sepharose Bead Conjugate

Catalogue No. PA1012-S

Lot No. 04J01

Ig type: rabbit IgG

Size: 100μg/vial

Specificity
Human, mouse, rat. No cross reactivity with other proteins.

Recommended application
Immunoprecipitation(IP)

Immunogen
A synthetic peptide mapping at the middle region of human mature ATP5J (CF6), different from the related mouse sequence by two amino acids.

Purification
Immunogen affinity purified.

Formulation
50% slurry in PBS pH 7.2 with 0.01mg NaN_3a_3 preservative.

Storage
Store at 4˚C for frequent use.

Description:
This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND
ATP synthase, H+ transporting, mitochondrial F0 complex, subunit F6 (ATP5J) is a multisubunit membrane-bound enzyme complex consisting of an F0 segment embedded in the membrane and an F1 segment attached to the F0. It is also a component of mitochondrial ATP synthase which is required for the interactions of the catalytic and proton-translocating segments. Human ATP5J shares 72% sequence identity with rat ATP5J.This import signal peptide is rich in basic amino acids, devoid of acidic amino acids, and amphiphilic, which allows it to be water-soluble yet capable of passage through the phospholipid membrane bilayers. Moreover, it is circulating and functions as an endogenous vasoconstrictor by inhibiting cytosolic phospholipase A2.

REFERENCE

1. Javed AA, Ogata K, Sanadi DR. Human mitochondrial ATP synthase: cloning cDNA for the nuclear-encoded precursor of coupling factor 6. Gene. 1991 Jan 15; 97(2):307-10. 2. Higuti T, Tsurumi C, Kawamura Y, Tsujita H, Osaka F, Yoshihara Y, Tani I, Tanaka K, Ichihara A. Molecular cloning of cDNA for the import precursor of human coupling factor 6 of H(+)-ATP synthase in mitochondria. Biochem Biophys Res Commun. 1991 Jul 31; 178(2):793-9.
3. Osanai T, Magota K, Tanaka M, Shimada M, Murakami R, Sasaki S, Tomita H, Maeda N, Okumura K. Intracellular signaling for vasoconstrictor coupling factor 6: novel function of beta-subunit of ATP synthase as receptor. Hypertension. 2005 Nov; 46(5):1140-6.