

NACC1 (6H2) Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 253096

Unit: 0.1 ml

Description:

NAC1 (Nucleus accumbens-1) is a nuclear factor that belongs to the POZ/BTB (Pox virus and zinc finger/bric-a-brac tramtrack broad complex) domain family. Also known as BTBD14B, it was originally identified in a unique neuronal forebrain structure responsible for reward motivation and addictive behaviors. NAC1 recruits HDAC3 and HDAC4 to transcriptionally repress gene expression in neuronal cells and specifically co-represses other POZ/BTB proteins in the central nervous system. NAC1 is upregulated in several tumor types, including breast, renal cell, and hepatocellular carcinoma, as well as high grade ovarian serous carcinoma, where it has long been suspected as a chemoresistance gene. The chemoresistance mechanism reportedly occurs through NAC1 negative regulation of the GADD45 pathway. NAC1 has also been described as part of the extended transcriptional network in pluripotent cells that involves Oct-4, Sox2, Nanog, Sall1, KLF4 and Sall4. NAC1 is overexpressed in several types of carcinomas including ovarian serous carcinomas. Expression levels positively correlate with tumor recurrence in ovarian serous carcinomas, and intense immunoreactivity in primary ovarian tumors predicts early recurrence. Up-regulated in ovarian carcinomas after chemotherapy, suggesting a role in development of chemotherapy resistance in ovarian cancer.

Isotype: Mouse IgG1

Applications: WB, IHC

Species Reactivity: H

Format: Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.

Alternate Names: Nucleus accumbens-associated protein 1; NAC-1; BTB/POZ domain-containing protein 14B; BTBD14B; NAC1; NACC1

Accession No.: Q96RE7

Antigen: Purified recombinant fragment of human NACC1 expressed in *E. coli*

Storage: Store at 4°C for short term use only. Store at -20°C for storage over 1 month. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.

Application Notes: WB: 1:500-1:2000; IHC: 1:200-1:1000;

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