

Anti-NACC1 Monoclonal Antibody (70276)

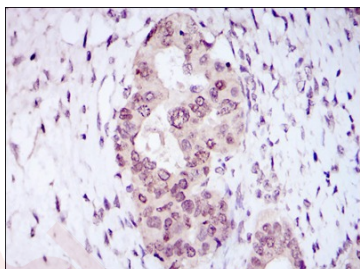
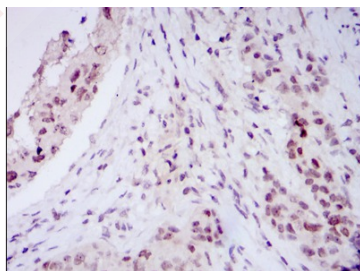
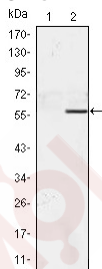
Product Details

Ig Type:	IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 58 kDa.
Clone:	70276
Purification:	Purified by protein A or protein G

Applications

Verified Activity:

1. Western blot analysis of NACC1 on HEK293 (1) and NACC1-hlgGfc transfected HEK293 (2) cell lysate using anti-NACC1 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human mammary cancer tissue using anti-NACC1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissue using anti-NACC1 antibody. Counter stained with hematoxylin.



Application:	IHC
Recommended	IHC: 1/200-1/1000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Purified recombinant fragment of human NACC1 expressed in E. Coli.

Antigen Species: Human

Gene ID: 112939

Uniprot ID: Q96RE7

Synonyms: NAC-1;BTBD14B;NAC1;NACC1;FLJ37383;BEND8

Research Background

NAC1 or nuclear 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 (3) 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. Tissue specificity: 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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