

# ZGPAT Antibody

Catalog # ASC11410

#### Specification

## ZGPAT Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Application Notes

WB, IF, E <u>Q8N5A5</u> <u>NP\_115916</u>, <u>133925793</u> Human Chicken Polyclonal IgY ZGPAT antibody can be used for detection of ZGPAT by Western blot at 1 μg/mL. Antibody can also be used for immunofluorescence starting at 20 μg/mL. For immunofluorescence start at 20 μg/mL.

## ZGPAT Antibody - Additional Information

Gene ID 84619 Target/Specificity ZGPAT; Multiple isoforms of ZGPAT are known to exist.

#### **Reconstitution & Storage**

ZGPAT antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions** ZGPAT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **ZGPAT Antibody - Protein Information**

Name ZGPAT

Synonyms GPATC6, GPATCH6, KIAA1847, ZC3H9, ZC3HDC

# Function

Transcription repressor that specifically binds the 5'- GGAG[GA]A[GA]A-3' consensus sequence. Represses transcription by recruiting the chromatin multiprotein complex NuRD to target promoters. Negatively regulates expression of EGFR, a gene involved in cell proliferation, survival and migration. Its ability to repress genes of the EGFR pathway suggest it may act as a tumor suppressor. Able to suppress breast carcinogenesis.

**Cellular Location** Nucleus.



Tissue Location Widely expressed..

## **ZGPAT Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

#### ZGPAT Antibody - Images



Western blot analysis of ZGPAT in SK-N-SH cell lysate with ZGPAT antibody at 1  $\mu$ g/mL in (A) the absence and (B) the presence of blocking peptide.



Immunofluorescence of ZGPAT in human brain cells with ZGPAT antibody at 20 µg/mL. ZGPAT Antibody - Background

ZGPAT Antibody: The Zinc finger CCCH-type with G patch domain-containing protein (ZGPAT), is a



transcriptional repressor that regulates several cellular pathways including EGFR pathways that are involved in cell proliferation, migration and survival. ZGPAT recruits the Mi-2/NuRD complex and represses the expression of EGFR. ZGPAT is down-regulated in breast carcinomas and its expression is negatively correlated with that of EGFR, suggesting that it may be a potential target for breast cancer therapy. Multiple isoforms of ZGPAT are known to exist, including sZIP, which binds to the Mi-2/NuRD complex but lacks the DNA binding component of full-length ZGPAT, thereby antagonizing transcription repression and growth inhibition by ZGPAT.

#### **ZGPAT Antibody - References**

Li R, Zhang H, Yu W, et al. ZIP: a novel transcription repressor, represses EGFR oncogene and suppresses breast carcinogenesis. EMBO J. 2009; 28:2763-6. Yu W, Li R, Gui B, et al. sZIP, an alternative splice variant of ZIP, antagonizes transcription repression and growth inhibition by ZIP. J. Biol. Chem. 2010; 285:14301-7.