

**ZGPAT Antibody**  
**Catalog # ASC11410****Specification****ZGPAT Antibody - Product Information**

Application	WB, IF, E
Primary Accession	<a href="#">Q8N5A5</a>
Other Accession	<a href="#">NP_115916, 133925793</a>
Reactivity	Human
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Application Notes	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.

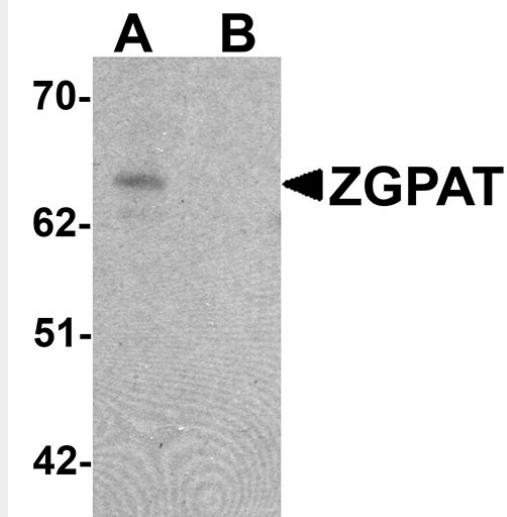
**Tissue Location**

Widely expressed..

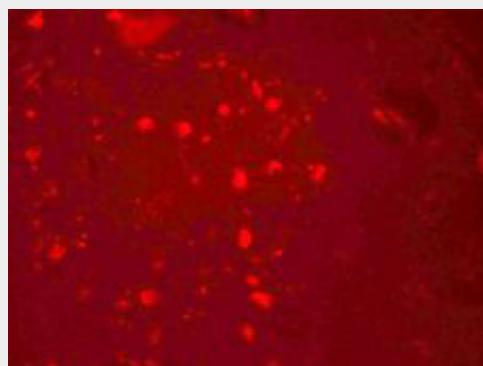
**ZGPAT Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ZGPAT Antibody - Images**

Western blot analysis of ZGPAT in SK-N-SH cell lysate with ZGPAT antibody at 1 µg/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.