

ZGPAT Antibody

Catalog # ASC11410

Product Information

Application	WB, IF, E
Primary Accession	Q8N5A5
Other Accession	NP_115916 , 133925793
Reactivity	Human
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Calculated MW	57359
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	ZGPAT antibody can be used for detection of ZGPAT by Western blot at 1 μ g/mL. Antibody can also be used for immunofluorescence starting at 20 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	84619
Other Names	Zinc finger CCCH-type with G patch domain-containing protein, G patch domain-containing protein 6, Zinc finger CCCH domain-containing protein 9, Zinc finger and G patch domain-containing protein, ZGPAT, GPATC6, GPATCH6, KIAA1847, ZC3H9, ZC3HDC9, ZIP
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.

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..

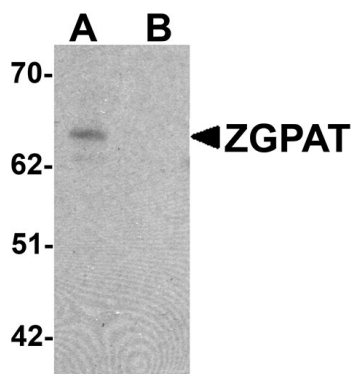
Background

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.

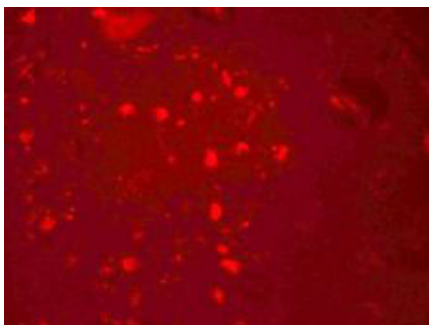
References

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.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.