

GTSE1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9882B

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	Q9NYZ3
Other Accession	Q8R080
Reactivity	Human, Mouse
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24035
Calculated MW	78505
Antigen Region	690-717

Additional Information

Gene ID	51512
Other Names	G2 and S phase-expressed protein 1, GTSE-1, Protein B99 homolog, GTSE1
Target/Specificity	This GTSE1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 690-717 amino acids from the C-terminal region of human GTSE1.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GTSE1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GTSE1 (HGNC:13698)
Function	May be involved in p53-induced cell cycle arrest in G2/M phase by interfering with microtubule rearrangements that are required to enter

mitosis. Overexpression delays G2/M phase progression.

Cellular Location

Cytoplasm, cytoskeleton. Note=Associated with microtubules

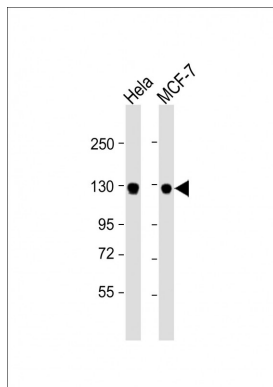
Background

GTSE1 is only expressed in the S and G2 phases of the cell cycle, where it colocalizes with cytoplasmic tubulin and microtubules. In response to DNA damage, the encoded protein accumulates in the nucleus and binds the tumor suppressor protein p53, shuttling it out of the nucleus and repressing its ability to induce apoptosis.

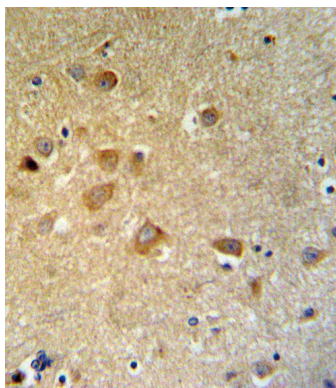
References

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Beausoleil, S.A., et al. Nat. Biotechnol. 24(10):1285-1292(2006)
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Cheng, J., et al. Science 308(5725):1149-1154(2005)
Beausoleil, S.A., et al. Proc. Natl. Acad. Sci. U.S.A. 101(33):12130-12135(2004)

Images

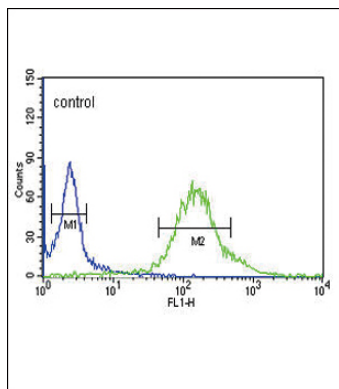


All lanes : Anti-GTSE1 Antibody (C-term) at 1:1000 dilution
Lane 1: HeLa whole cell lysate Lane 2: MCF-7 whole cell lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 77 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



GTSE1 Antibody (C-term) (Cat. #AP9882b) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GTSE1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

GTSE1 Antibody (C-term) (Cat. #AP9882b) flow cytometric analysis of HeLa cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



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