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Anti-G18 Antibody

Catalog # AP50938

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9NSE2
Reactivity	Human, Mouse, Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28663

Additional Information

Gene ID	1154
Other Names	G18; Cytokine-inducible SH2-containing protein; CIS; CIS-1; Protein G18; Suppressor of cytokine signaling; SOCS
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human G18. The exact sequence is proprietary.
Dilution	WB~~ 1:500 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

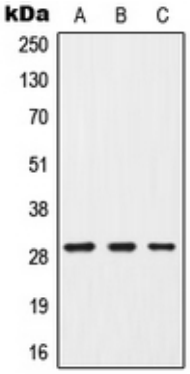
Protein Information

Name	CISH
Synonyms	G18
Function	SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. CIS is involved in the negative regulation of cytokines that signal through the JAK-STAT5 pathway such as erythropoietin, prolactin and interleukin 3 (IL3) receptor. Inhibits STAT5 trans-activation by suppressing its tyrosine phosphorylation. May be a substrate-recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (By similarity).
Tissue Location	Expressed in various epithelial tissues. Abundantly expressed in liver and kidney, and to a lesser extent in lung. The tissue distribution of isoforms 1 and 1B is distinct

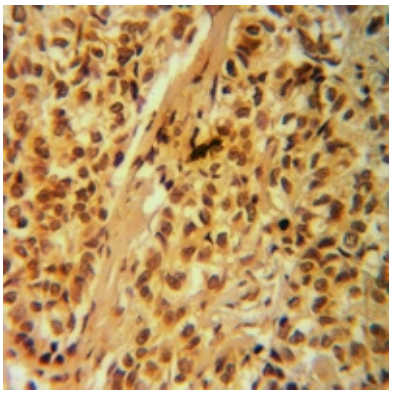
References

Uchida K.,et al.Cytogenet. Cell Genet. 78:209-212(1997).
Jiang C.,et al.DNA Seq. 11:149-154(2000).
Wei M.-H.,et al.Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
Yousefi S.,et al.Biochem. Biophys. Res. Commun. 277:401-409(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

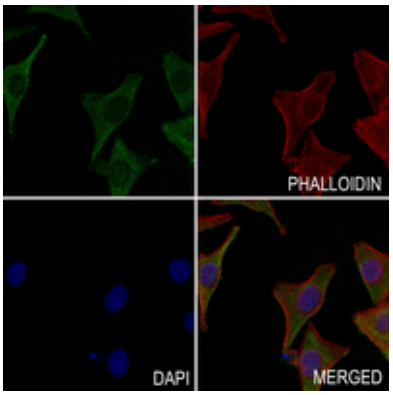
Images



Western blot analysis of G18 expression in MCF7 (A), mouse brain (B), PC12 (C) whole cell lysates. (Predicted band size: 28 kD; Observed band size: 28 kD)



Immunohistochemical analysis of G18 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of G18 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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