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Anti-GAS1 Antibody

Catalog # AP54073

Product Information

Application	WB, IF/IC
Primary Accession	P54826
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35693

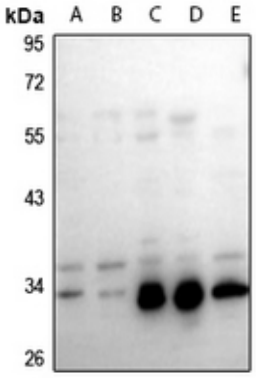
Additional Information

Gene ID	2619
Other Names	Growth arrest-specific protein 1; GAS-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human GAS1. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 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

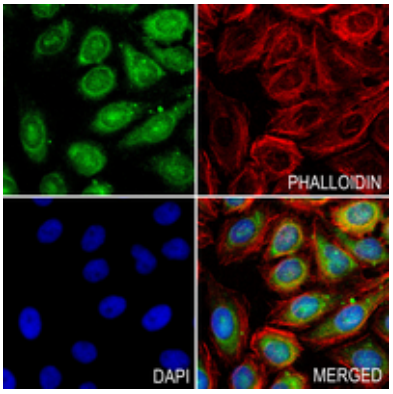
Protein Information

Name	GAS1 {ECO:0000303|PubMed:8127893, ECO:0000312|HGNC:HGNC:4165}
Function	Coreceptor required for sonic hedgehog (SHH) handoff to its receptor: binds to the dually lipid-modified Sonic hedgehog protein N- product (ShhN) downstream of the CDON-BOC heterodimer and directly transfers ShhN to its patched receptor (PTCH1 or PTCH2), followed by activation of the smoothened signaling pathway (PubMed:35231446). Specifically recognizes and binds palmitate and cholesterol moieties in dually lipid-modified ShhN (PubMed:35231446). Binds 20(S)- hydroxycholesterol (20(S)-OHC) (By similarity). Acts as a growth arrest protein involved in growth suppression by blocking entry to S phase (PubMed:8127893).
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:Q01721}; Extracellular side {ECO:0000250|UniProtKB:Q01721}

Images



Western blot analysis of GAS1 expression in SGC7901 (A), A375 (B), Hela (C), PC12 (D), MEF (E) whole cell lysates. (Predicted band size: 35 kD; Observed band size: 34; 36 kD)



Immunofluorescent analysis of GAS1 staining in A549 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'.