For Research Use Only

TUSC2 Polyclonal antibody

Catalog Number:11538-1-AP 2 Publications

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Basic Information

Catalog Number:
11538-1-AP

Size:
150ul , Concentration: 147 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2118

GenBank Accession Number:
BC023976

GeneID (NCBI):
11334

Full Name:
tumor suppressor candidate 2

Calculated MW:
12 kDa

Observed MW:
10-12 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:300-1:2000
IHC 1:20-1:200
IF 1:20-1:200

Applications

Tested Applications:
IF, IHC, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human heart tissue, mouse pancreas tissue

IHC : human lung cancer tissue, human colon cancer tissue

IF : A549 cells,

Background Information

FUS1 (or TUSC2) gene is a highly conserved lung cancer candidate gene, which was identified in the 120 kb 3p21.3 critical region contained in nested lung and breast cancer homozygous deletions. Overexpression of FUS1 gene leads to G1 arrest and growth inhibition of lung cancer cells (PMID: 11593436). The encoded Fusion-1 protein was down-regulated, mutated or lost in the majority of inflammatory thoracic malignancies. It has been evidenced that Fusion-1 establishes its immune- and tumour-suppressive activities via regulation of mitochondrial homeostasis (PMID: 22513871). In addition, myristoylation is found to be required for Fusion-1-mediated tumor-suppressing activity and suggest a novel mechanism for the inactivation of tumor suppressors in lung cancer and a role for deficient posttranslational modification in tumor suppressor-gene-mediated carcinogenesis (PMID: 15126327).

Notable Publications

Author	Pubmed ID	Journal	Application
Francesca Maria Orlandella	27661106	Oncotarget	WB,IHC
Tadas K Rimkus	35167936	Cancer Lett	WB,IHC,IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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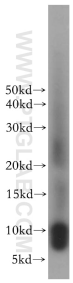
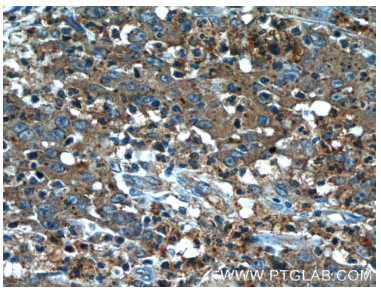
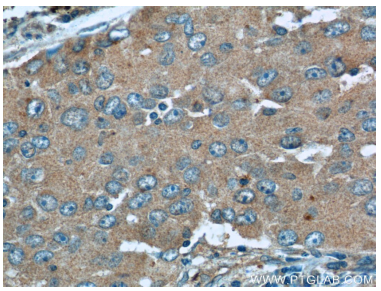
Selected Validation Data



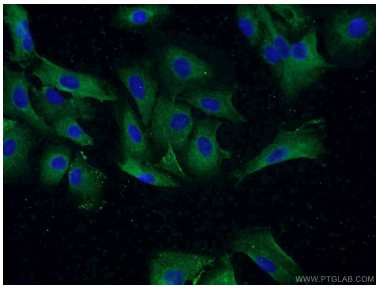
human heart tissue were subjected to SDS PAGE followed by western blot with 11538-1-AP (TUSC2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11538-1-AP (TUSC2 Antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11538-1-AP (TUSC2 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of A549 cells using 11538-1-AP (TUSC2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).