

For Research Use Only

# TUSC2 Polyclonal antibody, PBS Only

Catalog Number:11538-1-PBS



## Basic Information

<b>Catalog Number:</b> 11538-1-PBS	<b>GenBank Accession Number:</b> BC023976	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ug , Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 11334	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O75896	
<b>Isotype:</b> IgG	<b>Full Name:</b> tumor suppressor candidate 2	
<b>Immunogen Catalog Number:</b> AG2118	<b>Calculated MW:</b> 12 kDa	
	<b>Observed MW:</b> 10-12 kDa	

## Applications

**Tested Applications:**  
ELISA

**Species Specificity:**  
human, mouse, rat

## 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).

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

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## Selected Validation Data