

SFRP5 Polyclonal antibody

Catalog Number: 14283-1-AP

Basic Information

Catalog Number: 14283-1-AP	GenBank Accession Number: BC050435	Purification Method: Antigen affinity purification
Size: 300 µg/ml	GeneID (NCBI): 6425	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	UNIPROT ID: Q5T4F7	IHC 1:50-1:500
Isotype: IgG	Full Name: secreted frizzled-related protein 5	IF/ICC 1:200-1:800
Immunogen Catalog Number: AG5555	Calculated MW: 36 kDa	
	Observed MW: 36-42 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

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: HUVEC cells, LO2 cells, mouse heart tissue, mouse retina tissue

IHC: human thyroid cancer tissue, human cervical cancer tissue, mouse heart tissue, rat eye tissue

IF/ICC: A549 cells,

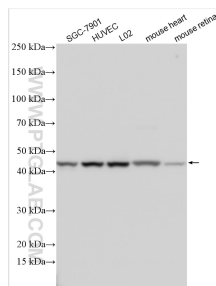
Background Information

Secreted frizzled-related protein 5 (SFRP5) is an anti-inflammatory adipokine whose expression is perturbed in models of obesity and type 2 diabetes. SFRP5 is secreted by adipocytes and that it controls the micro-environment of white adipose tissue under conditions of metabolic stress (PMID: 20558665). SFRP5 gene consists of 317 amino acid residues and 3 coding exons and maps to chromosome 10q24.1 in humans. SFRP5 was initially found to be highly expressed in retinal pigment epithelium cells and moderately expressed in the pancreas. SFRP5 is involved in the pathological process of obesity, insulin resistance, dyslipidemia, inflammation, and fibrosis and is associated with obesity, T2D, and ASCVD (PMID: 31199714, PMID: 32004418).

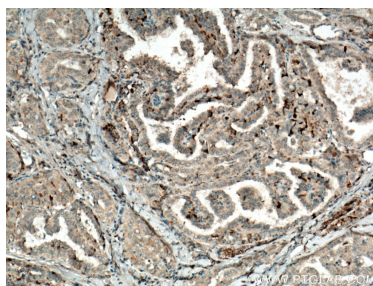
Storage

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

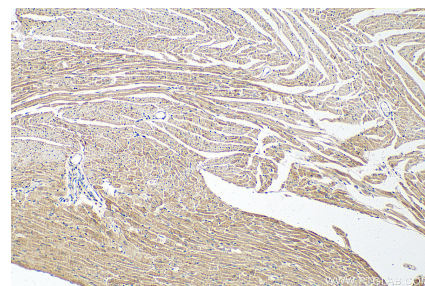
Selected Validation Data



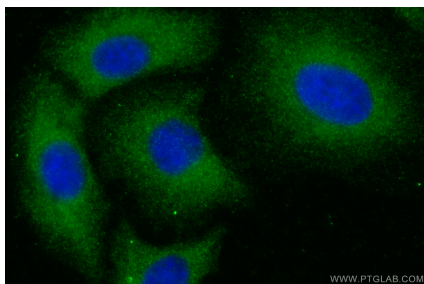
Various lysates were subjected to SDS PAGE followed by western blot with 14283-1-AP (SFRP5 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 14283-1-AP (SFRP5 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 14283-1-AP (SFRP5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using SFRP5 antibody (14283-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).