

For Research Use Only

# Zinc Alpha 2 Glycoprotein Monoclonal antibody



Catalog Number: 66178-1-Ig **1 Publications**

## Basic Information

<b>Catalog Number:</b> 66178-1-Ig	<b>GenBank Accession Number:</b> BC033830	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1400 µg/ml by Nanodrop and 980 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 563	<b>CloneNo.:</b> 4B8A4
<b>Source:</b> Mouse	<b>Full Name:</b> alpha-2-glycoprotein 1, zinc-binding	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200 IF 1:200-1:800
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 298 aa, 34 kDa	
<b>Immunogen Catalog Number:</b> AG5661	<b>Observed MW:</b> 41 kDa	

## Applications

**Tested Applications:**  
IF, IHC, WB, ELISA

**Cited Applications:**  
IHC, WB

**Species Specificity:**  
human

**Cited Species:**  
human

**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 plasma tissue,

**IHC :** human breast cancer tissue, human prostate cancer tissue, human prostate hyperplasia tissue

**IF :** human breast cancer tissue,

## Background Information

Zinc-alpha-2-glycoprotein (AZGP1) is a 41-kDa soluble protein normally found in body fluids, functions as a lipid mobilizing factor (PMID: 19188554). It is known to be expressed in the secretory epithelia of the liver, lung, breast, GI tract and sweat glands, sharing significant structural similarity with the class I major histocompatibility complex (MHC) antigens (PMID: 3422450). AZGP1 is involved in carcinogenesis and differentiation. Altered expression of AZGP1 has been reported in breast cancer, prostate cancer and lung adenocarcinoma, hepatocellular carcinoma, pancreatic carcinoma and oral tumors (PMID: 22625427).

## Notable Publications

Author	Pubmed ID	Journal	Application
Hong Tang	28053542	Onco Targets Ther	WB,IHC

## 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**

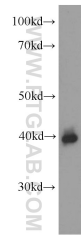
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

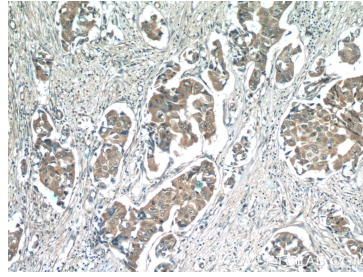
E: proteintech@ptglab.com  
W: ptglab.com

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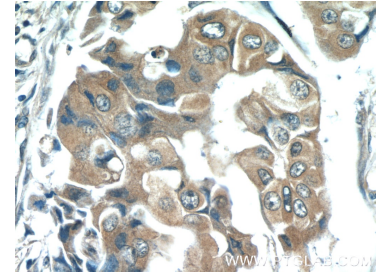
## Selected Validation Data



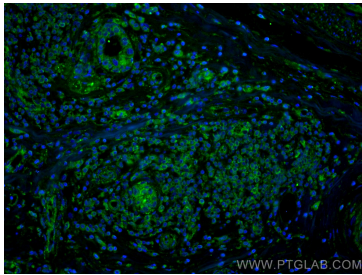
human plasma were subjected to SDS PAGE followed by western blot with 66178-1-Ig (AZGP1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66178-1-Ig (AZGP1 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66178-1-Ig (AZGP1 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using Zinc Alpha 2 Glycoprotein antibody (66178-1-Ig, Clone: 4B8A4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).