

For Research Use Only

# Zinc Alpha 2 Glycoprotein Monoclonal antibody

Catalog Number: 66178-1-Ig

1 Publications



## Basic Information

|   |   |  |
|---|---|--|
| <b>Catalog Number:</b><br>66178-1-Ig  | <b>GenBank Accession Number:</b><br>BC033830              | <b>Purification Method:</b><br>Protein A purification                                  |
| <b>Size:</b><br>150ul , Concentration: 1400 ug/ml by Nanodrop and 980 ug/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>563                              | <b>CloneNo.:</b><br>4B8A4  |
| <b>Source:</b><br>Mouse   | <b>UNIPROT ID:</b><br>P25311                              | <b>Recommended Dilutions:</b><br>WB 1:500-1:2000<br>IHC 1:20-1:200<br>IF-P 1:200-1:800 |
| <b>Isotype:</b><br>IgG1   | <b>Full Name:</b><br>alpha-2-glycoprotein 1, zinc-binding |  |
| <b>Immunogen Catalog Number:</b><br>AG5661  | <b>Calculated MW:</b><br>298 aa, 34 kDa                   |  |
|   | <b>Observed MW:</b><br>41 kDa                             |  |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>WB, IHC, IF-P, ELISA  | <b>Positive Controls:</b><br>WB : human plasma tissue,<br>IHC : human breast cancer tissue, human prostate cancer tissue, human prostate hyperplasia tissue<br>IF-P : human breast cancer tissue, |
| <b>Cited Applications:</b><br>WB, IHC  |   |
| <b>Species Specificity:</b><br>human   |   |
| <b>Cited Species:</b><br>human   |   |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |   |

## Background Information

Zinc-alpha-2-glycoprotein (AZGP1), 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

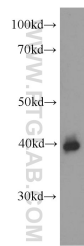
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

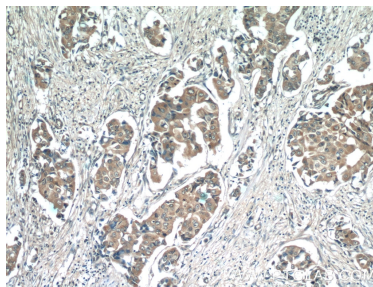
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

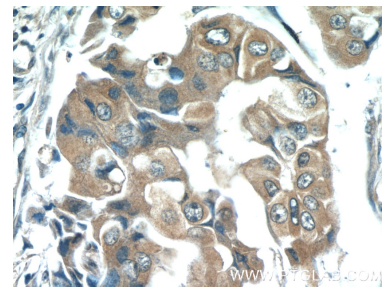
## Selected Validation Data



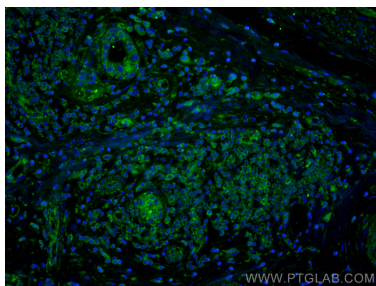
human plasma were subjected to SDS PAGE followed by western blot with 66178-1-Ig (AZGP1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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 Goat Anti-Mouse IgG(H+L).