

# Cytokeratin 7 Monoclonal antibody

Catalog Number: 68296-1-Ig

## Basic Information

<b>Catalog Number:</b> 68296-1-Ig	<b>GenBank Accession Number:</b> BC002700	<b>Purification Method:</b> Protein G purification
<b>Concentration:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 3855	<b>CloneNo.:</b> 3G2H1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P08729	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG1	<b>Full Name:</b> keratin 7	IHC 1:4150-1:16600
<b>Immunogen Catalog Number:</b> AG7895	<b>Calculated MW:</b> 469 aa, 51 kDa	IF-P 1:200-1:800
	<b>Observed MW:</b> 51 kDa	

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Species Specificity:

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:** EC109 cells, HeLa cells, HaCat cells, A431 cells, A549 cells, BxPC-3 cells, T-47D cells

**IHC:** human lung cancer tissue, human endometrial cancer tissue, human ovary tumor tissue, human pancreas cancer tissue

**IF-P:** mouse liver tissue,

## Background Information

Keratins are a large family of proteins that form the intermediate filament cytoskeleton of epithelial cells, which are classified into two major sequence types. Type I keratins are a group of acidic intermediate filament proteins, including K9-K23, and the hair keratins Ha1-Ha8. Type II keratins are the basic or neutral counterparts to the acidic type I keratins, including K1-K8, and the hair keratins, Hb1-Hb6. KRT7, also named cytokeratin 7, is one member of type II basic cytokeratin. It is specifically expressed in the simple epithelia lining the cavities of the internal organs and in the gland ducts and blood vessels, and their neoplasms. KRT7 is a marker of epithelial tissues, but not present in carcinomas of stratified squamous cell origin.

## Storage

### Storage:

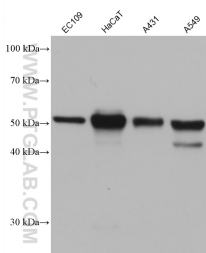
Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

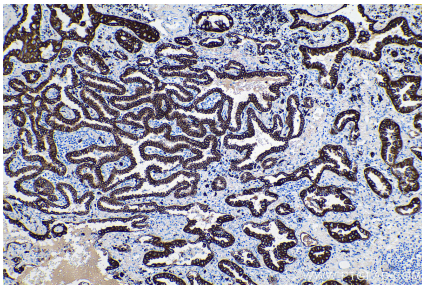
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

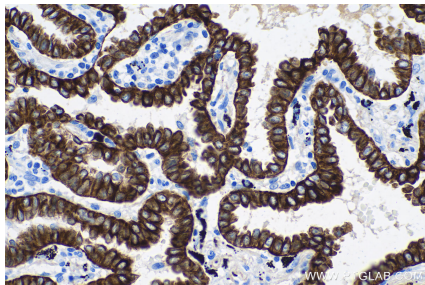
Selected Validation Data



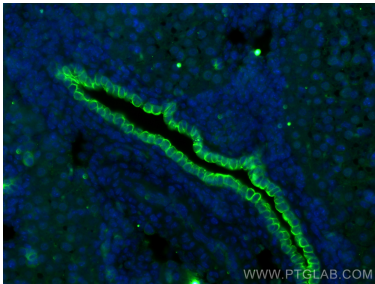
Various lysates were subjected to SDS PAGE followed by western blot with 68296-1-Ig (Cytokeratin 7 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



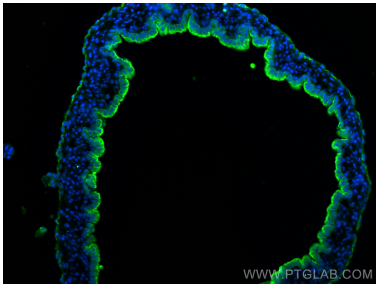
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 68296-1-Ig (Cytokeratin 7 antibody) at dilution of 1:8300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 68296-1-Ig (Cytokeratin 7 antibody) at dilution of 1:8300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using Cytokeratin 7 antibody (68296-1-Ig, Clone: 3G2H1 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using Cytokeratin 7 antibody (68296-1-Ig, Clone: 3G2H1 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).