

For Research Use Only

# Cytokeratin 1-specific Polyclonal antibody



Catalog Number: 16848-1-AP

10 Publications

## Basic Information

<b>Catalog Number:</b> 16848-1-AP	<b>GenBank Accession Number:</b> NM_006121	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 900 µg/ml by Nanodrop and 347 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3848	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> keratin 1	<b>IHC 1:20-1:200</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 66 kDa	<b>IF 1:20-1:200</b>
	<b>Observed MW:</b> 67 kDa	

## Applications

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

**Cited Applications:**  
IF, IHC, WB

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

**Cited Species:**  
goat, human, mouse

**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:** rat skin tissue, mouse skin

**IP:** A431 cells,

**IHC:** human skin tissue, human lung cancer tissue

**IF:** A431 cells,

## 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. Keratin-1 is type II keratin. It is a specific marker for terminal differentiation in mammalian epidermis. It is specifically expressed in the spinous and granular layers of the epidermis with family member KRT10 and mutations in these genes have been associated with bullous congenital ichthyosiform erythroderma. This antibody is specifically against keratin I.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yanyun Wang	34687431	Hum Cell	IHC, IF
Shidi Wu	31790685	Life Sci	IHC
Jie Zhang	34060533	Front Endocrinol (Lausanne)	WB

## 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

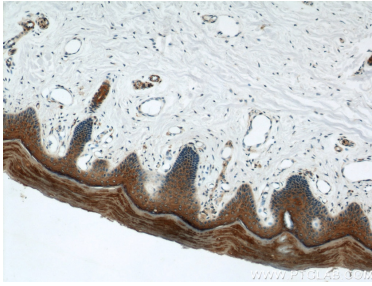
For technical support and original validation data for this product please contact:

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

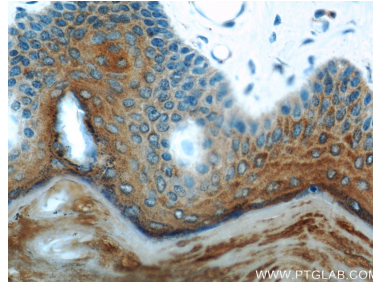
E: proteintech@ptglab.com  
W: ptglab.com

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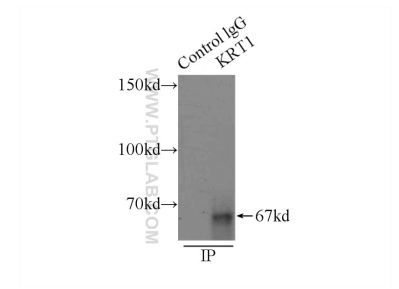
## Selected Validation Data



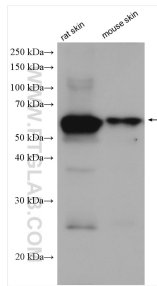
Immunohistochemical analysis of paraffin-embedded human skin using 16848-1-AP (Cytokeratin 1-specific antibody) at dilution of 1:100 (under 10x lens).



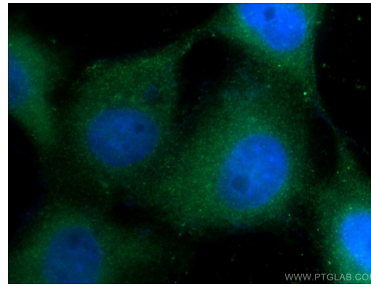
Immunohistochemical analysis of paraffin-embedded human skin using 16848-1-AP (Cytokeratin 1-specific antibody) at dilution of 1:100 (under 40x lens).



IP Result of anti-Cytokeratin 1-specific (IP:16848-1-AP, 3ug; Detection:16848-1-AP 1:500) with A431 cells lysate 3500ug.



Various lysates were subjected to SDS PAGE followed by western blot with 16848-1-AP (Cytokeratin 1-specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of A431 cells using 16848-1-AP (Cytokeratin 1-specific antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).