For Research Use Only

Cytokeratin 1-specific Polyclonal antibody

Catalog Number:16848-1-AP

19 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
16848-1-AP

Size:
150ul , Concentration: 550 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_006121

GeneID (NCBI):
3848

UNIPROT ID:
P04264

Full Name:
keratin 1

Calculated MW:
66 kDa

Observed MW:
67 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:200-1:800
IF-P 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, goat

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 tissue

IP : mouse skin tissue,

IHC : rat skin tissue, human lung cancer tissue, human skin tissue, human cervical cancer tissue

IF-P : mouse skin tissue,

IF/ICC : 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 courterparts 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 ketatin 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

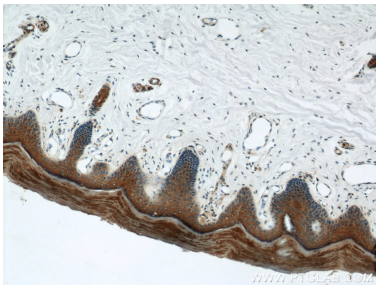
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

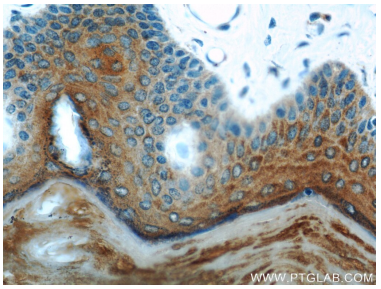
*** 20ul sizes contain 0.1% BSA

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

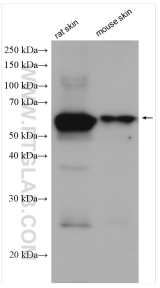
Selected Validation Data



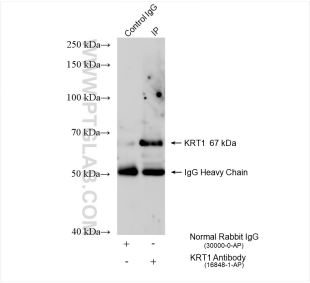
Immunohistochemical analysis of paraffin-embedded human skin using 16848-1-AP (Cytokeratin 1-specific antibody) at dilution of 1:100 (under 10x lens).



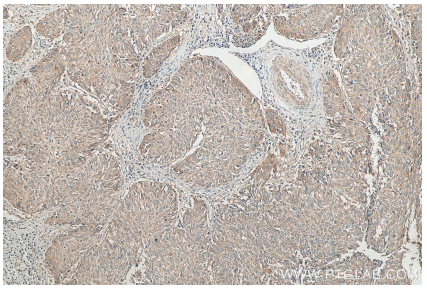
Immunohistochemical analysis of paraffin-embedded human skin using 16848-1-AP (Cytokeratin 1-specific antibody) at dilution of 1:100 (under 40x lens).



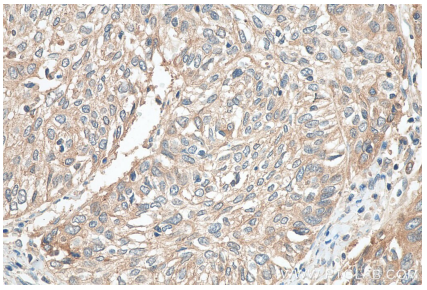
Various lysates were subjected to SDS PAGE followed by western blot with 16848-1-AP (Cytokeratin 1-specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



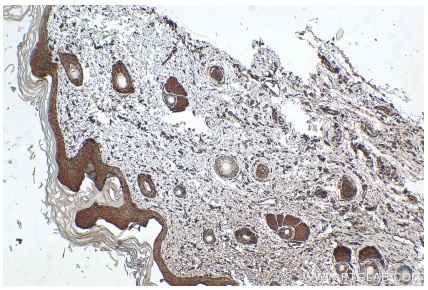
IP result of anti-Cytokeratin 1-specific (IP:16848-1-AP, 4ug; Detection:16848-1-AP 1:800) with mouse skin tissue lysate 640 ug.



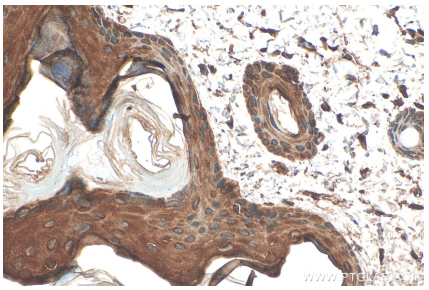
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 16848-1-AP (Cytokeratin 1-specific antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



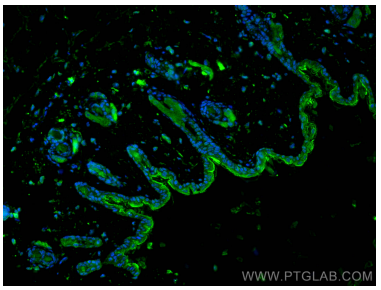
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 16848-1-AP (Cytokeratin 1-specific antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



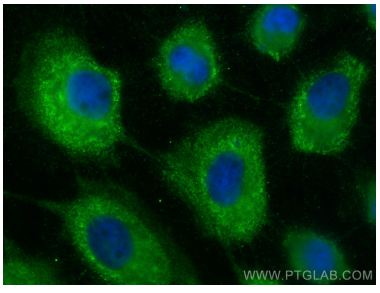
Immunohistochemical analysis of paraffin-embedded rat skin tissue slide using 16848-1-AP (Cytokeratin 1-specific antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat skin tissue slide using 16848-1-AP (Cytokeratin 1-specific antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skin tissue using Cytokeratin 1-specific antibody (16848-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using Cytokeratin 1-specific antibody (16848-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).