

For Research Use Only

TGM1 Polyclonal antibody

Catalog Number: 12912-3-AP

35 Publications



Basic Information

Catalog Number:

12912-3-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3905

GenBank Accession Number:

BC034699

GeneID (NCBI):

7051

UNIPROT ID:

P22735

Full Name:

transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-glutamyltransferase)

Calculated MW:

817 aa, 90 kDa

Observed MW:

90 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF, ELISA

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB : human saliva, mouse kidney tissue

IP : mouse kidney tissue,

IHC : human cervical cancer tissue, human bowen disease, human brown disease, human cervix tissue, human skin tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Transglutaminase 1 is an epidermal enzyme that is expressed during the terminal differentiation of keratinized squamous epithelium to form cornified cell envelopes in differentiated keratinocytes. Mutation of TGM1 has been linked to various epidermal diseases. This antibody recognizes the endogenous 90 kDa TGM1 proteins.

Notable Publications

Author	Pubmed ID	Journal	Application
Laurence Cantin-Warren	30223550	J Funct Biomater	IF
Jie Zhang	34646892	Burns Trauma	WB,IHC
Risa Ikutama	36455652	J Invest Dermatol	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

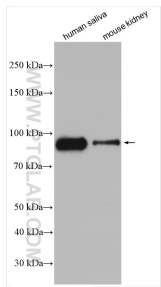
For technical support and original validation data for this product please contact:

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

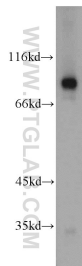
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

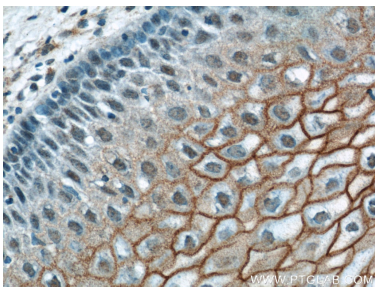
Selected Validation Data



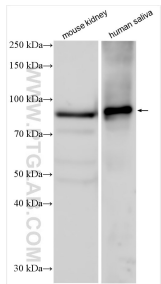
Various lysates were subjected to SDS PAGE followed by western blot with 12912-3-AP (TGM1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



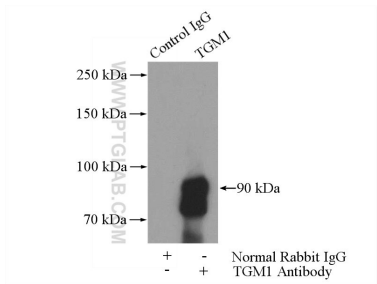
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 12912-3-AP (TGM1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



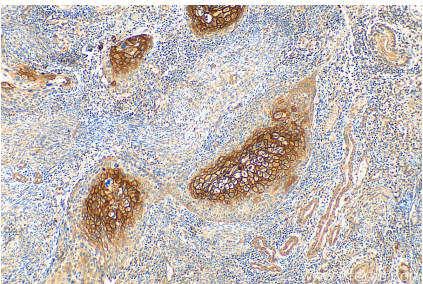
Immunohistochemical analysis of paraffin-embedded human cervix using 12912-3-AP (TGM1 antibody) at dilution of 1:200 (under 40x lens).



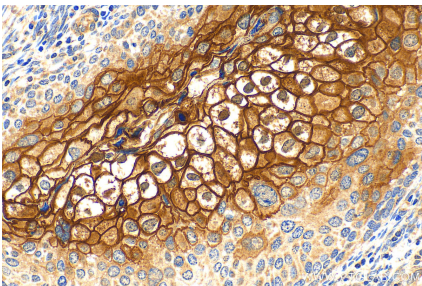
Various lysates were subjected to SDS PAGE followed by western blot with 12912-3-AP (TGM1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



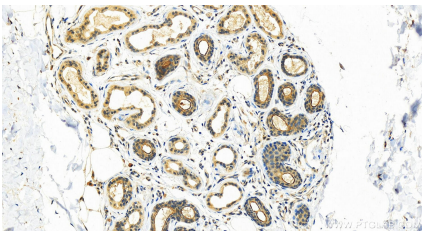
IP result of anti-TGM1 (IP:12912-3-AP, 4ug; Detection:12912-3-AP 1:1000) with mouse kidney tissue lysate 4000ug.



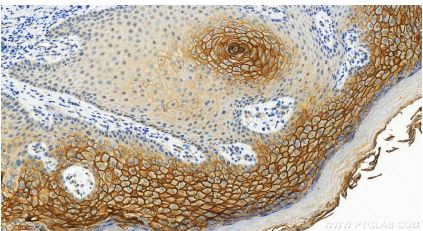
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 12912-3-AP (TGM1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



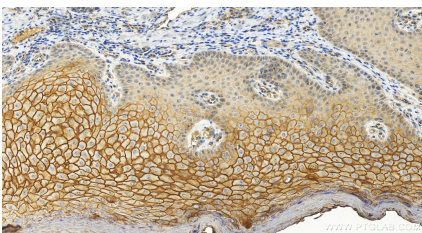
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 12912-3-AP (TGM1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human bowen disease slide using 12912-3-AP (TGM1 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human bowen disease slide using 12912-3-AP (TGM1 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human brown disease slide using 12912-3-AP (TGM1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).