

## TGM1 Polyclonal antibody

Catalog Number: 12912-3-AP

24 Publications

## Basic Information

<b>Catalog Number:</b> 12912-3-AP	<b>GenBank Accession Number:</b> BC034699	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7051	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Source:</b> Rabbit	<b>Full Name:</b> transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-glutamyltransferase)	<b>IHC 1:200-1:800</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 817 aa, 90 kDa	
<b>Immunogen Catalog Number:</b> AG3905	<b>Observed MW:</b> 90 kDa	

## Applications

<b>Tested Applications:</b> IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> ELISA, IF, IHC, WB	<b>WB :</b> human saliva, mouse kidney tissue
<b>Species Specificity:</b> human, mouse	<b>IP :</b> mouse kidney tissue,
<b>Cited Species:</b> human, rat, mouse	<b>IHC :</b> human cervical cancer tissue, human skin tissue, human cervix tissue
<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

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

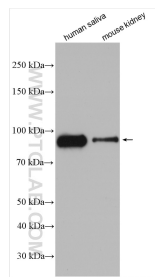
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
 Aliquoting is unnecessary for -20°C storage

\*\*\* 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](mailto:proteintech@ptglab.com)  
 W: [ptglab.com](http://ptglab.com)

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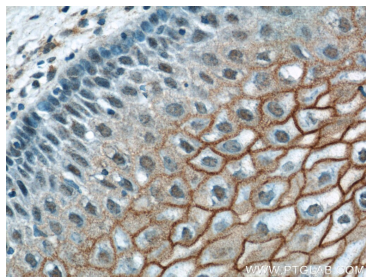
Selected Validation Data



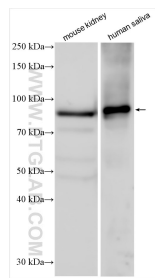
Various lysates were subjected to SDS PAGE followed by western blot with 12912-3-AP (TGM1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



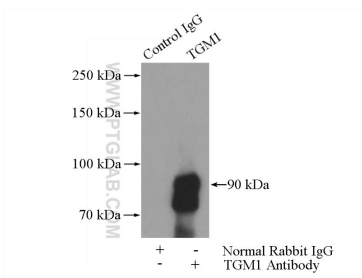
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 12912-3-AP (TGM1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



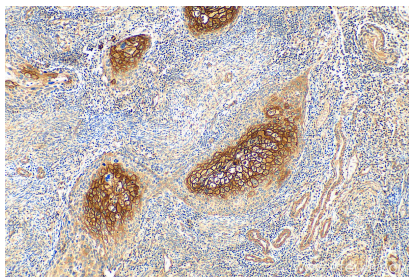
Immunohistochemical analysis of paraffin-embedded human cervix using 12912-3-AP (TGM1 antibody) at dilution of 1:200 (under 40x lens).



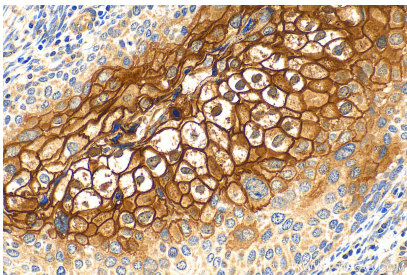
Various lysates were subjected to SDS PAGE followed by western blot with 12912-3-AP (TGM1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).