

# Product Datasheet

## Transglutaminase 2/TGM2 Antibody - BSA Free NBP1-86951

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-86951**

Transglutaminase 2/TGM2 Antibody - BSA Free

**Product Information**

|                      |  |
|----------------------|--|
| <b>Unit Size</b>     | 0.1 ml   |
| <b>Concentration</b> | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| <b>Storage</b>       | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.                           |
| <b>Clonality</b>     | Polyclonal   |
| <b>Preservative</b>  | 0.02% Sodium Azide   |
| <b>Isotype</b>       | IgG  |
| <b>Purity</b>        | Immunogen affinity purified  |
| <b>Buffer</b>        | PBS (pH 7.2) and 40% Glycerol  |

**Product Description**

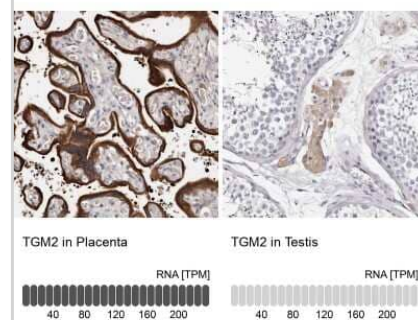
|                         |  |
|-------------------------|--|
| <b>Host</b>             | Rabbit   |
| <b>Gene ID</b>          | 7052   |
| <b>Gene Symbol</b>      | TGM2   |
| <b>Species</b>          | Human  |
| <b>Reactivity Notes</b> | Reactivity reported in scientific literature (PMID: 22294552)  |
| <b>Immunogen</b>        | This antibody was developed against Recombinant Protein corresponding to amino acids:<br>VEPVINSYLLAERDLYLENPEIKIRILGEPKQKRKLVAEVSLQNPLPVALEGCTFT<br>VEGAGLTEEQKTVEIPDPVEAGEEVKVRMDLLP |

**Product Application Details**

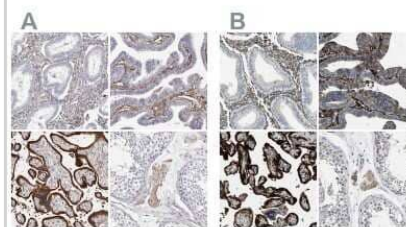
|                              |  |
|------------------------------|--|
| <b>Applications</b>          | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin   |
| <b>Recommended Dilutions</b> | Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500 |
| <b>Application Notes</b>     | For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.  |

**Images**

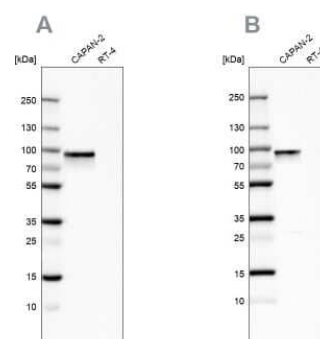
Immunohistochemistry-Paraffin: Transglutaminase 2/TGM2 Antibody [NBP1-86951] - Analysis in human placenta and testis tissues. Corresponding TGM2 RNA-seq data are presented for the same tissues.



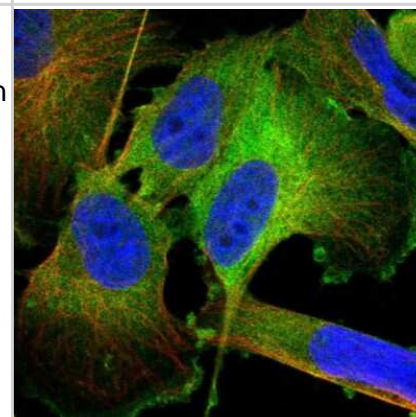
**Immunohistochemistry-Paraffin: Transglutaminase 2/TGM2 Antibody [NBP1-86951]** - Staining of human endometrium, fallopian tube, placenta and testis using Anti-TGM2 antibody NBP1-86951 (A) shows similar protein distribution across tissues to independent antibody NBP1-86952 (B).



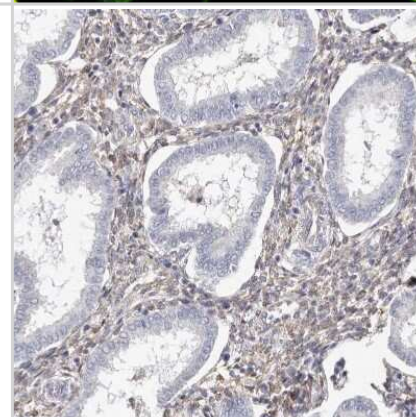
**Western Blot: Transglutaminase 2/TGM2 Antibody [NBP1-86951]** - Analysis using Anti-TGM2 antibody NBP1-86951 (A) shows similar pattern to independent antibody NBP1-86952 (B).



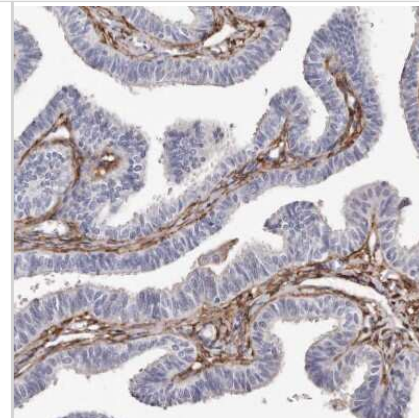
**Immunocytochemistry/Immunofluorescence: Transglutaminase 2/TGM2 Antibody [NBP1-86951]** - Staining of human cell line U-251 MG shows localization to plasma membrane and cytosol. Antibody staining is shown in green.



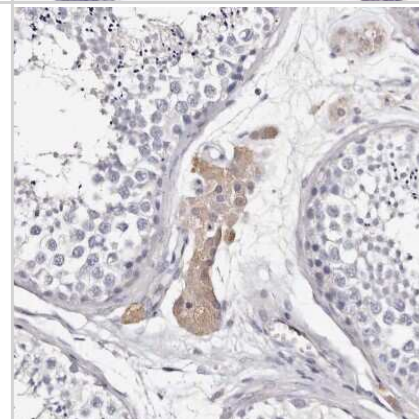
**Immunohistochemistry-Paraffin: Transglutaminase 2/TGM2 Antibody [NBP1-86951]** - Staining of human endometrium shows moderate cytoplasmic positivity in stromal cells.



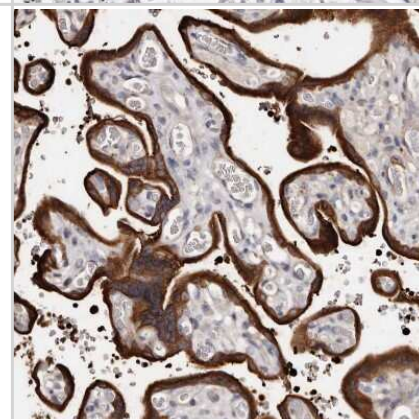
Immunohistochemistry-Paraffin: Transglutaminase 2/TGM2 Antibody [NBP1-86951] - Staining of human Fallopian tube shows moderate cytoplasmic positivity in stromal cells.



Immunohistochemistry-Paraffin: Transglutaminase 2/TGM2 Antibody [NBP1-86951] - Staining of human testis shows weak cytoplasmic positivity in Leydig cells.



Immunohistochemistry-Paraffin: Transglutaminase 2/TGM2 Antibody [NBP1-86951] - Staining of human placenta shows strong cytoplasmic positivity in trophoblastic cells.



## Publications

Hidaka H, Seki N, Yoshino H et al. Tumor suppressive microRNA-1285 regulates novel molecular targets: Aberrant expression and functional significance in renal cell carcinoma. *Oncotarget* 2012-01-01 [PMID: 22294552]

Bolander A, Agnarsdottir M, Stromberg S et al. The protein expression of TRP-1 and galectin-1 in cutaneous malignant melanomas. *Cancer Genomics Proteomics* 2008-11-01 [PMID: 19287070]



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### **Products Related to NBP1-86951**

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|               |   |
|---------------|---|
| NBP1-86951PEP | Transglutaminase 2/TGM2 Recombinant Protein Antigen |
| HAF008        | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160        | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891    | Rabbit IgG Isotype Control                          |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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