

**Transglutaminase 3 (aa598-610) Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3612a

### Specification

#### Transglutaminase 3 (aa598-610) Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	<a href="#">Q08188</a>
Other Accession	<a href="#">NP_003236.3, 7053</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	76632

#### Transglutaminase 3 (aa598-610) Antibody (internal region) - Additional Information

##### Gene ID 7053

##### Other Names

Protein-glutamine gamma-glutamyltransferase E, 2.3.2.13, Transglutaminase E, TG(E), TGE, TGase E, Transglutaminase-3, TGase-3, Protein-glutamine gamma-glutamyltransferase E 50 kDa catalytic chain, Protein-glutamine gamma-glutamyltransferase E 27 kDa non-catalytic chain, TGM3

##### Dilution

WB~~1:1000

E~~N/A

##### Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

##### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

##### Precautions

Transglutaminase 3 (aa598-610) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

#### Transglutaminase 3 (aa598-610) Antibody (internal region) - Protein Information

##### Name TGM3

##### Function

Catalyzes the calcium-dependent formation of isopeptide cross-links between glutamine and lysine residues in various proteins, as well as the conjugation of polyamines to proteins. Involved in the

formation of the cornified envelope (CE), a specialized component consisting of covalent cross-links of proteins beneath the plasma membrane of terminally differentiated keratinocytes. Catalyzes small proline-rich proteins (SPRR1 and SPRR2) and LOR cross-linking to form small interchain oligomers, which are further cross-linked by TGM1 onto the growing CE scaffold (By similarity). In hair follicles, involved in cross-linking structural proteins to hardening the inner root sheath.

#### Cellular Location

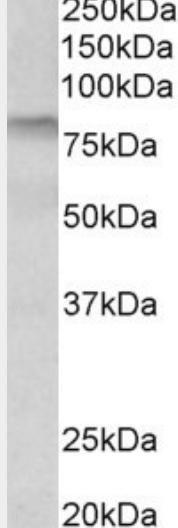
Cytoplasm.

#### Transglutaminase 3 (aa598-610) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Transglutaminase 3 (aa598-610) Antibody (internal region) - Images



AF3612a (0.3 µg/ml) staining of Human Tonsil lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### Transglutaminase 3 (aa598-610) Antibody (internal region) - References

Identification of a preferred substrate peptide for transglutaminase 3 and detection of *in situ* activity in skin and hair follicles. Yamane A, Fukui M, Sugimura Y, Itoh M, Alea MP, Thomas V, El Alaoui S, Akiyama M, Hitomi K. FEBS J. 2010 Sep;277(17):3564-74. PMID: 20716179