

Product datasheet

Anti-TGE antibody ab192494

Overview

Product name	Anti-TGE antibody
Description	Rabbit polyclonal to TGE
Host species	Rabbit
Specificity	ab192494 detects endogenous levels of TGE protein.
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein corresponding to Human TGE aa 1-693.

Sequence:

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MAALGVQSIN WQTAFNRQAH HTDKFSSQEL
ILRRGQNFQV LMIMNKGLGS NERLEFVST
GPYPSESAMT KAVFPLSNGS SGGWSAVLQA
SNGNTLTISI SSPASAPIGR YTMALQIFSQ
GGISSVKLGT FILLFNPWLN VDSVFMGNHA
EREEVQEDA GIIFVGSTNR IGMIGWNFGQ
FEEDILSICL SILDRSLNFR RDAATDVASR
NDPKYVGRVL SAMINSNDDN GVLAGNWSGT
YTGGRDPRSW NGSVEILKNW KKSGFSPVRY
GQCWVWVAGTL NTALRSLGIP SRVITNFNSA
HDTDRNLSVD VYYDPMGNPL DKGSDSVWNF
HWWNEGWFVR SDLGPSYGGW QVLDATPQER
SQGVFQCGPA SVIGVREGDV QLNFDMPFIF
AEVNADRITW LYDNTTGKQW KNSVNSHTIG
RYSTKAVGS NARMDVTDKY KYPEGSDQER
QVFQKALGKL KPNTPFAATS SMGLETEEQE
PSIIGKLVKA GMLAVGKEVN LVLLLKLNLSR
DTKTVTVNMT AWTIYNGTL VHEVWKDSAT
MSLDPEEEAE HPIKISYAQY EKYLKSDNMI
RITAVCKVPD ESEVVVERDI ILDNPTLTLE
VLNEARVRKP VNVQMLFSNP LDEPVRDCVL
MVEGSGLLLG NLKIDVPTLG PKEGSRVRFD
ILPSRSGTKQ LLADFSCNKF PAIKAMLSID VAE

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Database link: [Q08188](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

General notes

Protein previously labeled as Transglutaminase 3.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.1% Sodium azide Constituents: 49% PBS, 50% Glycerol
Purity	Immunogen affinity purified
Purification notes	ab192494 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab192494** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 77 kDa.
IHC-P		Use at an assay dependent concentration.

Target

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.

Sequence similarities Belongs to the transglutaminase superfamily. Transglutaminase family.

Post-translational modifications Activated by proteolytic processing. In vitro activation is commonly achieved by cleavage with dispase, a neutral bacterial protease. Dispase cleavage site was proposed to lie between Ser-470 and Ser-471 (PubMed:8099584) or between Pro-465 and Phe-466 (PubMed:16565075). Physiological activation may be catalyzed by CTSL and, to a lesser extent, by CTSS, but not by CTSB, CTSD nor CTSV (PubMed:16565075).

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