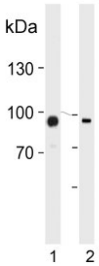
Protein-glutamine gamma-glutamyltransferase 2 Antibody / Transglutaminase 2 (F54953)

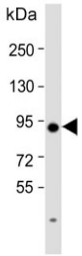
Catalog No.	Formulation	Size
F54953-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54953-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

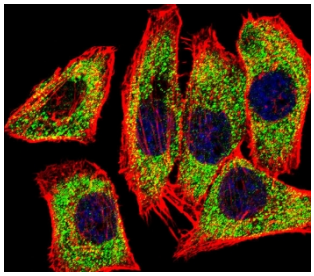
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P21980
Localization	Cytoplasmic and cell surface
Applications	Western Blot : 1:500-1:1000 Immunofluorescence : 1:10-1:50 Immunohistochemistry (FFPE) : 1:10-1:50
Limitations	This Protein-glutamine gamma-glutamyltransferase 2 antibody is available for research use only.



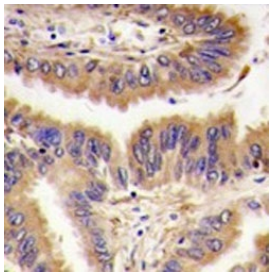
Western blot testing of human 1) HUVEC and 2) K562 cell lysate with Protein-glutamine gamma-glutamyltransferase 2 antibody. Predicted molecular weight ~78 kDa.



Western blot testing of human HeLa cell lysate with Protein-glutamine gamma-glutamyltransferase 2 antibody. Predicted molecular weight ~78 kDa.



Immunofluorescent staining of fixed and permeabilized human U-251 cells with Protein-glutamine gamma-glutamyltransferase 2 antibody (green), DAPI nuclear stain (blue) and anti-Actin (red).



IHC testing of FFPE human lung carcinoma tissue with Protein-glutamine gamma-glutamyltransferase 2 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

Transglutaminases are enzymes that catalyze the crosslinking of proteins by epsilon-gamma glutamyl lysine isopeptide bonds. While the primary structure of transglutaminases is not conserved, they all have the same amino acid sequence at their active sites and their activity is calcium-dependent. TGM2 acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. It has been identified as the autoantigen implicated in celiac disease.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Protein-glutamine gamma-glutamyltransferase 2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 429-458 from the human protein was used as the immunogen for the Protein-glutamine gamma-glutamyltransferase 2 antibody.

Storage

Aliquot the Protein-glutamine gamma-glutamyltransferase 2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.