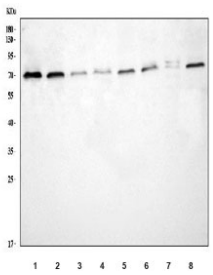
TCF4 Antibody / Transcription factor 4 (RQ7105)

Catalog No.	Formulation	Size
RQ7105	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P15884
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This TCF4 antibody is available for research use only.



Western blot testing of 1) human SH-SY5Y, 2) human Daudi, 3) rat testis, 4) rat brain, 5) rat C6, 6) mouse testis, 7) mouse brain and 8) mouse NIH 3T3 cell lysate with TCF4 antibody. Predicted molecular weight ~71 kDa.

Description

Transcription factor 4 (TCF-4) also known as immunoglobulin transcription factor 2 (ITF-2) is a protein that in humans is encoded by the TCF4 gene located on chromosome 18q21.2. This gene encodes transcription factor 4, a basic helix-loop-helix transcription factor. The encoded protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. This gene is broadly expressed, and may play an important role in nervous system development. Defects in this gene are a cause of Pitt-Hopkins syndrome. In addition, an intronic CTG repeat normally numbering 10-37 repeat units can expand to >50 repeat units and cause Fuchs endothelial corneal dystrophy.

Multiple alternatively spliced transcript variants that encode different proteins have been described.

Application Notes

Optimal dilution of the TCF4 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids Q147-V176) was used as the immunogen for the TCF4 antibody.

Storage

After reconstitution, the TCF4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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