

## Basic Information

Product Name	Anti-TCF4 Antibody
Gene Name	TCF4
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human TCF4 recombinant protein (Position: Q147-V176).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	71KD
Dilution Ratios	Western blot(WB):1:500-2000 (ELISA): 1:100-1000

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

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.

## Selected Validation Data

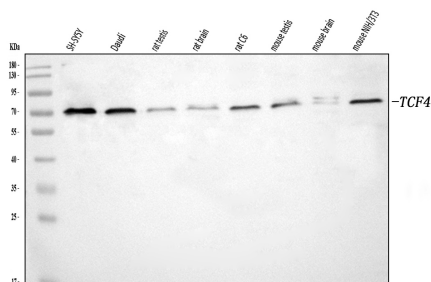


Figure 1. Western blot analysis of anti- TCF4 antibody (A00674-2).

The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: SH-SY5Y whole cell lysates,

Lane 2: Daudi whole cell lysates,

Lane 3: rat testis tissue lysates,

Lane 4: rat brain tissue lysates,

Lane 5: rat C6 whole cell lysates,

Lane 6: mouse testis tissue lysates,

Lane 7: mouse brain tissue lysates,

Lane 8: mouse NIH/3T3 tissue lysates.

Use rabbit anti- TCF4 1:1000, probed with a goat anti-rabbit IgG-

HRP secondary antibody. The signal is developed using an

Enhanced Chemiluminescent detection (ECL) kit (Catalog #

EK1002). A specific band was detected for TCF4 at approximately

71KD. The expected band size for TCF4 is at 71KD.