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Datasheet for ABIN6992107
anti-TAS2R140 antibody (AA 100-150)

Overview

Quantity:	0.1 mg
Target:	TAS2R140
Binding Specificity:	AA 100-150
Reactivity:	Rat, Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TAS2R140 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	TRB3 antibody was raised against a 17 amino acid peptide near the center of human TRB3. The immunogen is located within amino acids 100 - 150 of TRB3.
Isotype:	IgG
Specificity:	TRB3 antibody is human, mouse and rat reactive. At least two isoforms of TRB3 are known to exist, this antibody will detect both isoforms.
Purification:	TRB3 antibody is affinity chromatography purified via peptide column.

Target Details

Target:	TAS2R140
Alternative Name:	TRB3 (TAS2R140 Products)

Target Details

Background: TRB3 was initially identified as a novel kinase-like gene that was overexpressed in multiple human tumors and regulated by hypoxia (1). In the liver, TRB3 binds and inhibits AKT activity, leading to impaired insulin signaling (2), whereas in adipose tissue TRB3 is involved in the regulation of fatty acid oxidation through ubiquitination of Acetyl-CoA carboxylase (3). Endoplasmic reticulum (ER) stress induces TRB3 expression in skeletal muscle, leading to a decrease in insulin signaling and glucose uptake, suggesting that inhibition of TRB3 expression may be a potential therapeutic treatment for managing insulin resistance (4).

Molecular Weight: Predicted: 39 kDa

Observed: 39 kDa

Gene ID: 57761

NCBI Accession: [NP_066981](#)

UniProt: [Q96RU7](#)

Application Details

Application Notes: TRB3 antibody can be used for detection of TRB3 by Western blot at 1 - 2 $\mu\text{g/mL}$. Antibody can also be used for immunohistochemistry starting at 5 $\mu\text{g/mL}$. For immunofluorescence start at 20 $\mu\text{g/mL}$.

Antibody validated: Western Blot in mouse samples, Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: TRB3 antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, 4 °C

Handling

Storage Comment: TRB3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.