Data Sheet (Cat.No.TMAB-03417)

Anti-C2orf54 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat,Horse)
Molecular Weight:	Theoretical: 50 kDa. Actual: 50 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Tissue/cell: mouse lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37℃ for 20 min; Incubation: Anti-Phospho-Insulin Receptor Beta (Tyr1185) Polyclonal Antibody, Unconjugated 1: 200, overnight at 4℃, followed by conjugation to the secondary antibody and DAB staining 2. Sample: Small intestine (Mouse) Lysate at 40 µg Primary: Anti-C2orf54 (TMAB-03417) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kD Observed band size: 50 kD 3. Sample: Tongue (Mouse) Lysate at 40 µg Primary: Anti-C2orf54 (TMAB-03417) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kD Observed band size: 50 kD
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2℃-8℃ for 1 month. Store at -20℃ or -80℃ for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human C2orf54
Antigen Species:	Human
Gene ID:	79919
Uniprot ID:	Q08AI8

Research Background

C2orf54 (chromosome 2 open reading frame 54), also known as FLJ22671, MGC150431 or MGC150432, is a 447 amino acid protein that exists as three alternatively spliced isoforms, which are encoded by a gene located on human chromosome 2q37.3. The second largest human chromosome, chromosome 2 consists of 237 million bases, encodes

over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2. Harlequin icthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterolemia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alström syndrome is due to mutations in the ALMS1 gene. Interestingly, chromosome 2 contains what appears to be a vestigial second centromere and vestigial telomeres which gives credence to the hypothesis that human chromosome 2 is the result of an ancient fusion of two ancestral chromosomes seen in modern form today in apes.

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