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[Primary Antibody]

Rabbit Anti-C2orf54 antibody

Catalog Number: SL15153R

FOR RESEARCH USE ONLY

[DATASHEET]

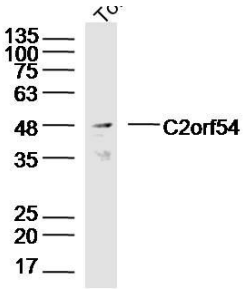
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	C2orf54
Immunogen:	KLH conjugated synthetic peptide derived from human C2orf54: 361-447/447
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, (predicted: Human, Rat, Horse)
Predicted MW.:	50kDa
Subcellular Location:	The nucleus cytoplasmic
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, Alstr syndrome is due to mutations in the ALMS1 gene. Interestingly, chromosome 2 contains what appears to be a vestigial second

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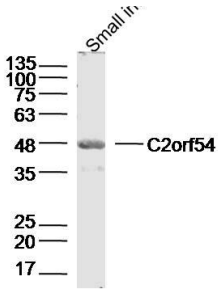
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	centromere and vestigial telomeres which gives credence to the hypothesis that human chromosome 2 is the result of an ancient fusion of two ancestral chromosomes seen in modern form today in apes. **Database links:** **Entrez Gene:** 79919 Human **Entrez Gene:** 71874 Mouse **SwissProt:** Q08AI8 Human **SwissProt:** Q8CEZ4 Mouse **Unigene:** 193745 Human

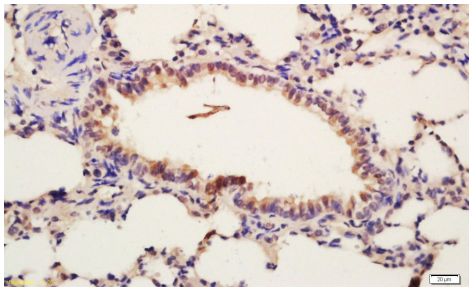
[VALIDATION IMAGES]



Sample: Tongue(Mouse)Lysate at 40 ug
Primary: Anti-C2orf54(SL15153R)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution
Predicted band size: 50kD
Observed band size: 50kD



Sample: Small intestine (Mouse)Lysate at 40 ug
Primary: Anti-C2orf54(SL15153R)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution
Predicted band size: 50kD
Observed band size: 50kD



Tissue/cell: mouse lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Phospho-Insulin Receptor Beta (Tyr1185) Polyclonal Antibody, Unconjugated (SL5453R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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