

Anti-C2orf53 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 45 kDa. Actual: 45 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Lovo Cell (Human) Lysate at 40 µg Primary: Anti-C2orf53 (TMAB-03416) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 45 kD
Application:	WB
Recommended	WB: 1:500-2000

Properties

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

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human C2orf53
Antigen Species:	Human
Gene ID:	339779
Uniprot ID:	Q53SZ7

Research Background

C2orf53 (chromosome 2 open reading frame 53), also known as MGC44505, is a 412 amino acid protein that is encoded by a gene located on human chromosome 2p23.3. 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 ichthyosis, 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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