

ITGA2 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02393

Basic Information

Catalog No.

RM02393

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

ITGA2

Species

Human

Gene ID

3673

Swiss Prot

P17301

Synonyms

BR; CD49B; GPIa; HPA-5; VLA-2; VLAA2

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Background

This gene encodes the alpha subunit of a transmembrane receptor for collagens and related proteins. The encoded protein forms a heterodimer with a beta subunit and mediates the adhesion of platelets and other cell types to the extracellular matrix. Loss of the encoded protein is associated with bleeding disorder platelet-type 9. Antibodies against this protein are found in several immune disorders, including neonatal alloimmune thrombocytopenia. This gene is located adjacent to a related alpha subunit gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

Product Information

Description

ITGA2 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:exon1 was deleted

Allele-2:exon1 was deleted

Allele-3:exon1 was deleted

Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging

1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions

4°C

Amount

50μL, 2μg/μL.

Storage

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

Protocol

To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

WT GCAAACCCAGCGCA*****GCGGGGATTTCGCT
Mut GCAAACCCAGCGC***Deletion***GCGGGGATTTCGCT
Allele-1: exon1 was deleted

WT CTGCAAACCCAGCG*****AGCGGGGATTTCGC
Mut CTGCAAACCCAGCG***Deletion***AGCGGGGATTTCGC
Allele-2: exon1 was deleted

WT TCTGCAAACCCAGC*****TCGCTCTGCATCGG
Mut TCTGCAAACCCAGC***Deletion***TCGCTCTGCATCGG
Allele-3: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and ITGA2 knockout (KO) 293T cells, using sanger sequencing.