

# KDR Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02021

## Basic Information

**Catalog No.**

RM02021

**Category**

Cell Lysate

**Parental Cell line**

HeLa

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

KDR

**Species**

Human

**Gene ID**

3791

**Swiss Prot**

P35968

**Synonyms**

CD309; FLK1; VEGFR; VEGFR2

## Contact

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## Background

Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin alphaVbeta3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq, May 2009]

## Product Information

**Description**

KDR Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.  
Allele-1:1bp deletion in exon3  
Allele-2:1bp deletion in exon3  
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

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WT GTGGAGGTGACTGAGTGCA GCGATGGCCTCTTCTGTAA  
Mut GTGGAGGTGACTGAGTGCA -CGATGGCCTCTTCTGTAA  
Allele-1: 1bp deletion in exon3

WT GTGGAGGTGACTGAGTGCA GCGATGGCCTCTTCTGTAA  
Mut GTGGAGGTGACTGAGTGCA -CGATGGCCTCTTCTGTAA  
Allele-2: 1bp deletion in exon3

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