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Anti-ROR1 Reference Antibody (zilovertamab vedotin)

Recombinant Antibody
Catalog # APR10207

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q01973
Reactivity	Human
Clonality	ADC
Isotype	IgG1
Calculated MW	104283

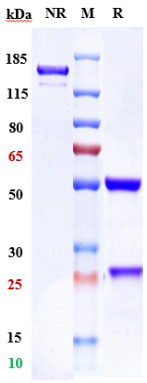
Additional Information

Target/Specificity	ROR1
Endotoxin	
Conjugation	MMAE
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

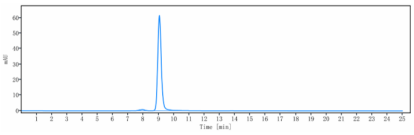
Protein Information

Name	ROR1
Synonyms	NTRKR1
Function	Has very low kinase activity in vitro and is unlikely to function as a tyrosine kinase in vivo (PubMed:25029443). Receptor for ligand WNT5A which activates downstream NFkB signaling pathway and may result in the inhibition of WNT3A-mediated signaling (PubMed:25029443, PubMed:27162350). In the inner ear, crucial for spiral ganglion neurons to innervate auditory hair cells (PubMed:27162350). Via IGFBP5 ligand, forms a complex with ERBB2 to enhance CREB oncogenic signaling (PubMed:36949068).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:Q9Z139}
Tissue Location	Expressed strongly in human heart, lung and kidney, but weakly in the CNS. Isoform Short is strongly expressed in fetal and adult CNS and in a variety of human cancers, including those originating from CNS or PNS neuroectoderm

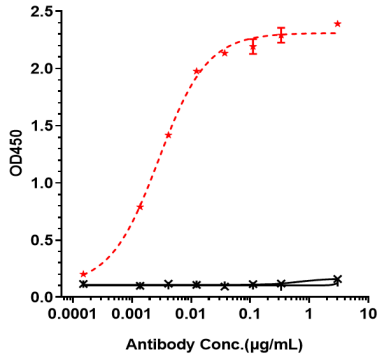
Images



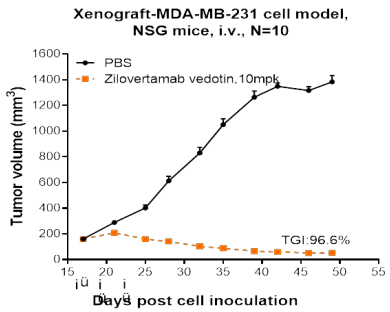
Anti-ROR1 Reference Antibody (zilovertamab vedotin) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



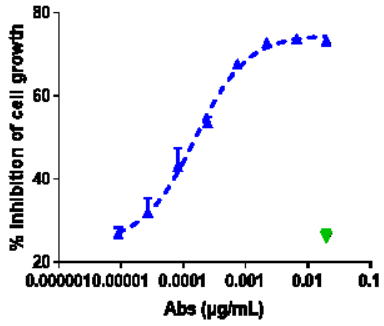
The purity of Anti-ROR1 Reference Antibody (Zilovertamab vedotin) is 98.21%, determined by SEC-HPLC.



Immobilized human ROR1 His at 2 ug/mL can bind Anti-ROR1 Reference Antibody (Zilovertamab vedotin), The EC50 is 0.002833 ug/mL.

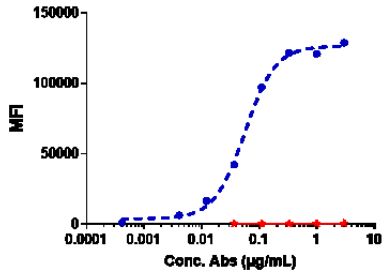


Anti-ROR1 Reference Antibody (Zilovertamab vedotin) inhibited the tumor growth of MDA-MB-231on NSG mice. The result showed significant anti-tumor effects, with an tumor inhibition rate (TGI) of 96.6% at 10 mpk.

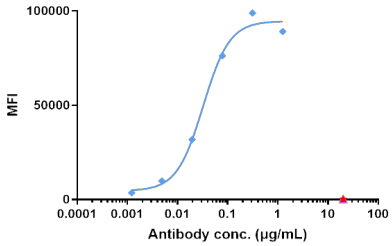


The endocytosis ratio Zilovertamab by Human ROR1-HEK293T cells increased with the increase of antibody concentration, and the Internalization Rate (%) reached 80% .

Human ROR1 HEK293T cells were stained with Anti-ROR1 Reference Antibody (Zilovertamab vedotin) and negative control protein respectively, washed and then followed



by PE and analyzed with FACS, The EC50 is 0.05656 ug/ml.



Human ROR1 CHO-K Cell Line were stained Anti-ROR1 Reference Antibody (zilovertamab vedotin) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, The EC50 is 0.03245 ug/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.