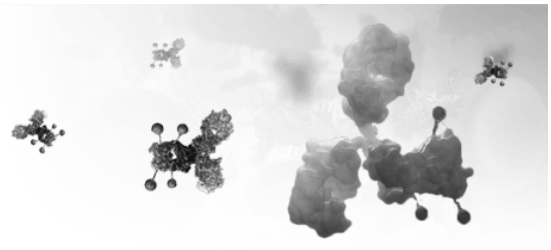

Anti-FUT3 (clone BR96)-Mc-VC-PABC-MMAF ADC

Cat. No: ADC-W-604

Antibody clone #: BR96

Similar to: b-BR96-MMAF

PRODUCT INFORMATION

This ADC product is comprised of an anti-FUT3 monoclonal antibody (clone BR96) conjugated via a Mc-VC-PABC linker to MMAF. The MMAF is targeted to certain cancers by immunerecognition and delivered into cancer cells via receptor mediated endocytosis. Within the cell, MMAF binds to tubulins, interrupts microtubule dynamics, and subsequently, induces cell death.

ADC Target

Name:	FUT3
Alternative Names:	FUT3; fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group); LE; Les; FT3B; CD174; FucT-III; galactoside 3(4)-L-fucosyltransferase; Lewis FT; fucosyltransferase III; alpha-(1,3/1,4)-fucosyltransferase; blood group Lewis alpha-4-f
Target Entrez Gene ID:	2525
Target UniProt ID:	A8K737
Overview:	The Lewis histo-blood group system comprises a set of fucosylated glycosphingolipids that are synthesized by exocrine epithelial cells and circulate in body fluids. The glycosphingolipids function in embryogenesis, tissue differentiation, tumor metastasis, inflammation, and bacterial adhesion. They are secondarily absorbed to red blood cells giving rise to their Lewis phenotype. This gene is a member of the fucosyltransferase family, which catalyzes the addition of fucose to precursor polysaccharides in the last step of Lewis antigen biosynthesis. It encodes an enzyme with alpha(1,3)-fucosyltransferase and alpha(1,4)-fucosyltransferase activities. Mutations in this gene are responsible for the majority of Lewis antigen-negative phenotypes. Multiple alternatively spliced variants, encoding the same protein, have been found for this gene.

ADC Antibody

Overview:	Chimeric Anti-FUT3 IgG1 Antibody, clone # BR96
Clone #:	BR96
Species Reactivity:	Human

ADC Linker

Name:	MC-VC-PABC (maleimidocaproyl-valine-citrulline-p-aminobenzoyloxycarbonyl)
Description:	Peptide linkers, belonging to Enzymatically cleavable linkers, combine greater systemic stability with rapid enzymatic release of the drug in the target cell. The scission of peptidic bonds relies on lysosomal proteolytic enzymes, which have very low activities in blood due to endogenous inhibitors and the unfavorably high pH value of blood.

ADC payload drug

Name:	MMAF (Monomethyl auristatin F)
Description:	Derived from Auristatin,are water-soluble dolastatin analogs of dolastatin 10. Dolastatin 10 belongs to dolastatin family and it can powerfully bind to tubulin, thus inhibiting polymerization mediated through the binding to the vinca alkaloid binding domain, and causes cell to accumulate in metaphase arrest.

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