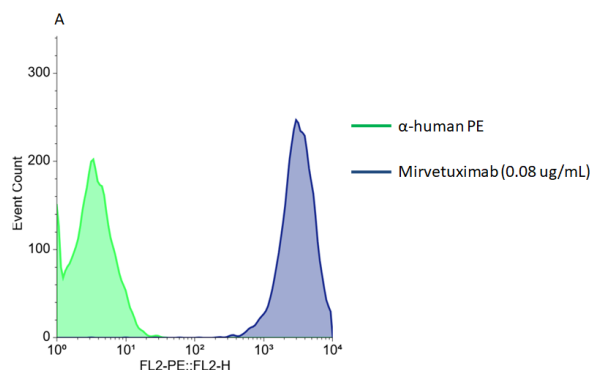


SPECIFICATIONS

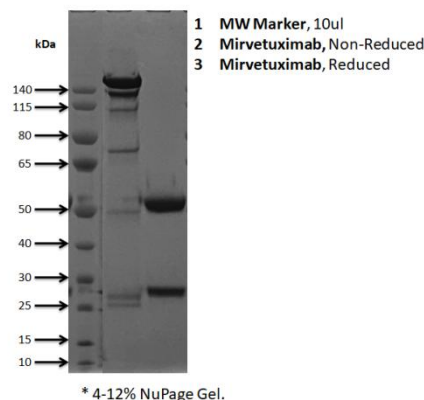
Catalog Number	A1040
Product Name	Anti-human FOLR1 antibody
Source	Recombinant anti-human FOLR1mAb produced from HEK293 cells
Clone	Mirvetuximab(VH and VL sequences are derived from Olga AB, et. al. US Patent # 2024/1032584 A1)
Species Reactivity	Human
Isotype	Human IgG1
Lot Number	#1211
Concentration	1 mg/mL
Formulation	1xPBS, pH6.8. Sterile
Stability & Storage	1 month at 4°C; 12 months at <-20°C; Avoid repeated freeze-thaw
Purity	>95%
Protein Aggregation	Not obvious on SDS-PAGE
Application	Flow cytometry,ELISA,cell-based assay

DATA

A. Flow cytometry: Detection of human FOLR1 expression on Human FOLR1-CHO-K1 cells (Cat. # C3038) by flow cytometry. Anti-human FOLR1 antibody Mirvetuximab(Cat. #A1040)was incubated with human FOLR1-CHO-K1 cells (Cat. # C3038), followed by staining with PE-anti-human IgG.



B. SDS-PAGE analysis of anti-human FOLR1 antibody Mirvetuximab (Cat. #A1040)



BACKGROUND

Folate receptor 1 (Folate receptor alpha, FOLR1) is a glycosyl-phosphatidylinositol (GPI)-linked membrane-bound protein, which exhibits a high affinity for folic acid and its reduced folic acid derivatives. FOLR1 mediates delivery of 5-methyltetrahydrofolate to the interior of cells. FOLR1 is involved in several cellular processes, including cell growth, survival, and signaling pathways. FOLR1 is expressed in kidney, placenta, serum, milk, and in several cell lines, while its expression has been found to be elevated in tumors of epithelial origin compared to normal tissue, including ovarian, breast, brain, lung and colorectal cancers. The tumor specificity of FOLR1 makes it a promising therapeutic target for the treatment of cancer.

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