

## Anti-Folate receptor beta [CL10] VivopureX 5 mg Ab00498-2.0-VXM

This chimeric mouse antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG2a, Kappa

**Clone Number:** CL10

**Alternative Name(s) of Target:** FR $\beta$ ; Folate receptor 2; Folate-binding protein 2.

**UniProt Accession Number of Target Protein:** Q05685

**Published Application(s):** WB, IHC

**Published Species Reactivity:** Mouse

**Immunogen:** FR $\beta$ -transfected RBL2H3 cells.

**Specificity:**

**Application Notes:** The antibody binds specifically to FR $\beta$ , a member of the folate receptor family. The receptor binds with high affinity to folic acid and folic acid derivatives, and transports 5-methyltetrahydrofolate into the cell. The receptor is expressed on the surface of tumour associated macrophages (TAMs) that promote growth and metastasis of tumours such as gliomas and colon, breast and lung carcinomas. Research has shown FR $\beta$  is only expressed on activated macrophages, and thereby a monoclonal antibody that targets the receptor can be useful in the diagnosis of the cancer. Furthermore, the antibody may be conjugated with a toxin, delivering the drug only to TAMs and not to healthy macrophages.

**Antibody First Published in:** Nagai T, Tanaka M, Tsuneyoshi Y, Xu B, Michie SA, Hasui K, Hirano H, Arita K, Matsuyama T. Targeting tumor-associated macrophages in an experimental glioma model with a recombinant immunotoxin to folate receptor beta. Cancer Immunol Immunother. 2009 Oct;58(10):1577-86. PMID:19238383

**Note on publication:** Describes the expression of folate receptor beta on macrophages in glioblastomas, and the production of an antibody against the receptor which can reduce tumour growth.

## Product Form

**Size:** 5 mg VivopureX products are produced at high purity (>98%), low endotoxin (<0.5 EU/mg) and are formulated without preservatives. These antibodies are chimerized to have an Fc domain matching their

target species to reduce immunogenicity and give you the optimal effector function for your experiment. As a result VivopureX products are the ideal choice for in vivo research applications.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** All VivopureX products are formulated in PBS only without addition of preservatives. To ensure optimal storage and prevent microbial contamination, only open and dispense under sterile conditions. Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:**  $\geq 1$ mg (see vial label for exact conc)

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.