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Anti-FOLR1 [Farletuzumab (MORAb-003; M3)] Standard Size Ab03043-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: Farletuzumab (MORAb-003; M3)

Alternative Name(s) of Target: FRA; Fr α ; Fr- α ; FBP; LK26; Folate receptor 1; Folate receptor alpha; FR-alpha; Adult folate-binding protein; Ovarian tumor-associated antigen MOv18; KB cells FBP; Folate receptor adult; MOv18

UniProt Accession Number of Target Protein: P15328

Published Application(s): antagonist, functional assay, ELISA, IHC

Published Species Reactivity: Human, Cynomolgus Monkey

Immunogen: The original parental mouse antibody was generated by immunizing (BALB/c X C57BL/6) F1 mice by intraperitoneal injection containing cultured LU-75(c) choriocarcinoma cells to produce hybridomas that generated the antibody LK26. Later on the Farletuzumab was generated by CDR grafting technique by taking CDRs of mouse parental clone LK26 and grafting them on human framework regions.

Specificity: This antibody binds human folate receptor alpha (FOLR1). FOLR1 binds folate and reduced folic acid derivatives and mediates delivery of 5-methyltetrahydrofolate and folate analogs into the interior of cells by receptor mediated endocytosis. It is required for normal embryonic development and normal cell proliferation. The human folate receptor-alpha (FOLR1) is overexpressed in ovarian cancer but largely absent in normal tissue. It is hypothesized that the presence of elevated levels of FR α can be correlated with the propagation rate and phenotype of the tumors.

Application Notes: This antibody was derived from the optimization of mouse parental LK26 antibody using a whole cell genetic evolution platform. This antibody possess growth-inhibitory activity on cells overexpressing FR-alpha. It elicited robust antibody-dependent cellular cytotoxicity (ADCC) and complement-dependent cytotoxicity (CDC) in vitro, and inhibited growth of human ovarian tumor xenografts in nude mice (PMID: 17346028). Immunohistochemistry studies determined that MORAb-003 infrequently stained the tubular epithelium, epithelium of the fallopian tube, and duct epithelium of the pancreas in both normal human and cynomolgus monkey tissues. Cynomolgus monkey was therefore considered an appropriate toxicology model (PMID: 17346028). This antibody was also found to antagonize the activity of human FR α , resulting in the loss of growth advantage conferred by overexpression of FR α under conditions which bracket physiological (10–100 nM) folate concentrations (Routhier et al, 2006). A

phase I study in patients with platinum resistant ovarian cancer revealed that MORAb-003 was well tolerated in patients with epithelial ovarian cancers and may have activity in platinum-resistant patients (Konner et al, 2006; Bell-McGuinn et al, 2007). In a phase 2 trial in patients with platinum-sensitive ovarian cancer, patients received single-agent farletuzumab or farletuzumab combined with carboplatin and paclitaxel (or docetaxel), followed by farletuzumab maintenance until progression. Of the 47 patients who received farletuzumab, 80.9% had normalization of their CA125, and a complete or partial objective response rate was achieved in 75% with combination therapy (Herzog et al, 2016). It was also reported that farletuzumab with carboplatin and taxane may enhance the response rate and duration of response in platinum-sensitive ovarian cancer patients with first relapse after remission of 6–18 months (PMID: 23474348).

Antibody First Published in: Ebel et al. Preclinical evaluation of MORAb-003, a humanized monoclonal antibody antagonizing folate receptor-alpha. *Cancer Immun.* 2007; 7: 6. [PMID:17346028](https://pubmed.ncbi.nlm.nih.gov/17346028/)

Note on publication: Describes the generation of a humanized version of an anti-FOLR1 antibody and tests its ADCC and CDC activity in vitro and in vivo for therapeutic applications.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

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