

## Anti-FOLR1/FRA Antibody

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature  
Store at -20°C

Actual storage temperature shall be subject to the COA.

## Biological Description

|               |   |
|---------------|---|
| Description   | Anti-FOLR1/FRA Antibody is a humanized monoclonal antibody targeting Folate Receptor alpha (FOLR1/FRA/FR $\alpha$ ). FOLR1 is a Glycosylphosphatidylinositol (GPI)-anchored membrane protein responsible for mediating high-affinity folate uptake into cells. It is significantly overexpressed in various epithelial cancers, including ovarian, breast, and lung cancers, while showing restricted expression in normal tissues (except the kidney proximal tubules), making it an ideal tumor target. Anti-FOLR1/FRA Antibody specifically binds to FOLR1 on the tumor cell surface, blocking Lyn kinase-mediated signaling to inhibit cell proliferation, and inducing potent Antibody-Dependent Cellular Cytotoxicity (ADCC) and Complement-Dependent Cytotoxicity (CDC) to directly kill tumor cells. Furthermore, as the targeting moiety of Antibody-Drug Conjugates (ADCs), it serves as a critical vehicle for delivering cytotoxic payloads (e.g., DM4) into tumor cells. |
| Targets(IC50) | Antifolate  |
| In vitro      | Anti-FOLR1/FRA Antibody binds FOLR1 with high affinity, inhibiting folate-dependent cell growth and Lyn kinase phosphorylation. It mediates robust ADCC and CDC against FOLR1-positive tumor cells [1][2].  |
| In vivo       | In ovarian cancer xenograft models, Anti-FOLR1/FRA Antibody significantly inhibits tumor growth and prolongs survival. Enhanced efficacy is observed when combined with taxanes [1].  |

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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