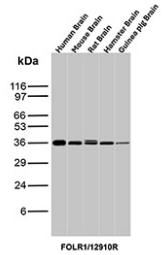
Folate receptor alpha Antibody / FOLR1 [clone FOLR1/12910R] (V5899)

Catalog No.	Formulation	Size
V5899-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5899-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5899SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

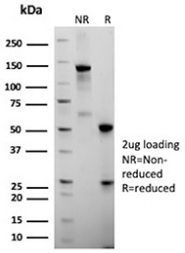
Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Guinea Pig, Hamster, Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	FOLR1/12910R
UniProt	P15328
Localization	Cell membrane, Cytoplasm, Secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This FOLR1/Folate receptor alpha antibody is available for research use only.



Western blot analysis of Folate receptor alpha expression in brain tissue lysates. Brain tissue lysates from human, mouse, rat, hamster, and guinea pig were analyzed by western blot using FOLR1/Folate receptor alpha antibody (clone FOLR1/12910R). A single immunoreactive band is detected above the predicted molecular weight. Although the predicted molecular weight of Folate receptor alpha is approximately 30 kDa based on sequence analysis, the protein is extensively glycosylated, resulting in a higher apparent molecular weight on SDS-PAGE.



SDS-PAGE Analysis of Purified FOLR1/Folate Receptor Alpha antibody (clone FOLR1/12910R). Confirmation of Purity and Integrity of Antibody.

Description

Folate receptor alpha antibody is commonly used to study Folate receptor alpha, a high-affinity folate binding protein that mediates cellular folate uptake through receptor-dependent endocytosis. Folate receptor alpha is encoded by the FOLR1 gene and belongs to a specialized class of folate transporters that operate independently of reduced folate carriers. By concentrating folate at the cell surface and facilitating internalization, Folate receptor alpha supports one-carbon metabolism, nucleotide biosynthesis, and cellular proliferation in folate-dependent tissues.

Folate receptor alpha is a glycosylphosphatidylinositol-anchored protein localized primarily to the plasma membrane, where it exhibits strong affinity for oxidized folate forms. This membrane anchoring distinguishes Folate receptor alpha from transmembrane folate transporters and contributes to its polarized distribution in epithelial cells. Studies using FOLR1 antibody have been central to defining receptor localization, ligand binding behavior, and intracellular trafficking following folate uptake.

Expression of Folate receptor alpha is normally restricted to select epithelial tissues, including placenta, kidney, and certain secretory epithelia, where it localizes to the apical cell surface. This restricted expression pattern reflects tissue-specific folate requirements and epithelial polarity. In experimental systems, detection of Folate receptor alpha using a FOLR1 antibody enables investigation of epithelial differentiation, membrane organization, and nutrient transport pathways.

Dysregulated expression of Folate receptor alpha has been widely documented in epithelial malignancies, particularly those arising from tissues that normally express FOLR1 at low levels. In these contexts, increased Folate receptor alpha expression is thought to reflect altered metabolic demand and changes in folate utilization. Use of a Folate receptor alpha antibody supports research into folate metabolism, epithelial tumor biology, and membrane-associated receptor dynamics without reliance on tumor-associated antigen nomenclature.

Folate receptor alpha antibody (clone FOLR1/12910R) is designed to detect Folate receptor alpha in research applications. Assessment of FOLR1 expression and localization provides insight into folate binding capacity, membrane-associated transport mechanisms, and tissue-specific metabolic regulation. Overall, Folate receptor alpha remains a fundamental protein for studies of folate biology, epithelial physiology, and disease-associated metabolic adaptation.

Application Notes

Optimal dilution of the FOLR1/Folate receptor alpha antibody should be determined by the researcher.

Immunogen

A recombinant fragment of human FOLR1 protein (exact sequence is proprietary) was used as the immuongen for the FOLR1/Folate receptor alpha antibody.

Storage

FOLR1/Folate receptor alpha antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.