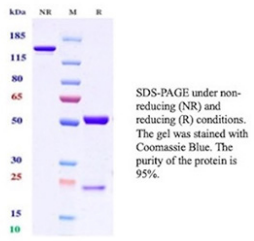
Ovarian tumor associated antigen MOv18 Antibody / FOLR1 [clone FOLR1/13425R] (V5901)

Catalog No.	Formulation	Size
V5901-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5901-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5901SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	FOLR1/13425R
UniProt	P15328
Localization	Cell membrane, Cytoplasm, Secreted
Applications	ELISA :
Limitations	This FOLR1/Ovarian tumor associated antigen MOv18 antibody is available for research use only.



SDS-PAGE under non-reducing (NR) and reducing (R) conditions. The gel was stained with Coomassie Blue. The purity of the protein is 95%.

SDS-PAGE analysis of recombinant FOLR1 antibody. Recombinant FOLR1 antibody (clone FOLR1/13425R) was analyzed by SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining. Under non-reducing conditions, the antibody migrates predominantly as a single band corresponding to intact immunoglobulin, while reducing conditions resolve bands consistent with antibody heavy and light chains. The gel demonstrates high sample purity and intact antibody structure.

Description

Ovarian tumor associated antigen MOv18 antibody targets Folate receptor alpha, a glycosylphosphatidylinositol-anchored cell surface protein that mediates high-affinity binding and internalization of folate. Folate receptor alpha is encoded by the FOLR1 gene and plays an important role in cellular folate uptake, supporting nucleotide synthesis, DNA repair, and one-carbon metabolism. Because folate availability is tightly linked to cell proliferation, expression of Folate receptor

alpha is carefully regulated in normal tissues and frequently altered in disease states.

Folate receptor alpha is also widely known as Ovarian tumor associated antigen MOv18, a designation that emerged from early studies identifying this protein as a differentiation antigen in ovarian carcinoma. The MOv18 antigen is highly expressed on the surface of many epithelial ovarian tumors while showing more restricted distribution in normal adult tissues. This expression pattern has driven extensive research interest in MOv18 as a marker of ovarian tumor biology and as a target for antibody-based detection strategies. Use of a FOLR1 antibody enables investigation of this tumor-associated expression profile in tissue and cell-based models.

At the cellular level, Folate receptor alpha localizes predominantly to the plasma membrane, where it facilitates receptor-mediated endocytosis of folate through caveolae-dependent pathways. Following internalization, folate is released into the cytoplasm to support essential metabolic processes. The membrane-associated nature of FOLR1 contributes to its accessibility as a biomarker and distinguishes it from reduced folate carriers that function through different transport mechanisms. Studies using FOLR1 antibody have been instrumental in defining receptor distribution and trafficking dynamics in epithelial cells.

Beyond ovarian cancer, expression of Folate receptor alpha has been reported in additional epithelial malignancies, including certain lung, breast, and endometrial tumors. However, its strong association with ovarian tumor associated antigen MOv18 remains one of the most defining features of this protein in cancer research. Detection of MOv18 expression supports studies focused on tumor heterogeneity, epithelial differentiation, and folate metabolism in malignant tissues.

Ovarian tumor associated antigen MOv18 antibody (clone FOLR1/13425R) is designed to detect Folate receptor alpha in research applications. Analysis of FOLR1 expression enables assessment of folate receptor distribution, cell surface localization, and tumor-associated expression patterns. Overall, Folate receptor alpha remains a biologically significant molecule at the intersection of nutrient transport, epithelial biology, and cancer-associated antigen research.

Application Notes

Optimal dilution of the FOLR1/Ovarian tumor associated antigen MOv18 antibody should be determined by the researcher.

Immunogen

A recombinant fragment (around amino acids 1-200) of human FOLR1 protein corresponding to the extracellular domain (exact sequence is proprietary) was used as the immuongen for the FOLR1/Ovarian tumor associated antigen MOv18 antibody.

Storage

FOLR1/Ovarian tumor associated antigen MOv18 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.