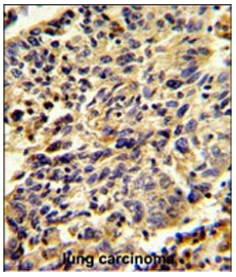
Glypican-1 Antibody / GPC1 (F55112)

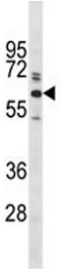
Catalog No.	Formulation	Size
F55112-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F55112-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

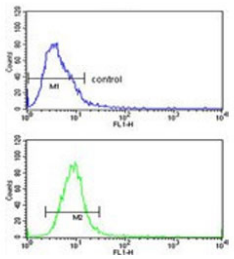
Availability	1-2 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
UniProt	P35052
Applications	Western Blot : 1:500-1:1000 Immunohistochemistry (FFPE) : 1:50-1:100 Flow Cytometry : 1:10-1:50 per million cells in 0.1ml
Limitations	This Glypican-1 antibody is available for research use only.



IHC staining of FFPE human lung carcinoma tissue with Glypican-1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Western blot testing of human HeLa cell lysate with Glypican-1 antibody. Predicted molecular weight ~62 kDa.



Flow cytometry testing of human HeLa cells with Glypican-1 antibody; Blue=isotype control, Green= Glypican-1 antibody.

Description

Glypican-1, also known as GPC1, is a glycosylphosphatidylinositol (GPI)-anchored cell surface proteoglycan that plays a crucial role in various cellular processes, including cell growth, differentiation, and signaling pathways. Recent studies have shown that GPC1 is overexpressed in many types of cancer, including pancreatic, breast, and prostate cancer. This overexpression is thought to contribute to the aggressiveness and metastatic potential of these tumors, making GPC1 a potential target for cancer therapy. One of the key functions of GPC1 in cancer is its ability to interact with growth factors and signaling molecules, such as Wnt and Hedgehog, to promote tumor growth and progression. By blocking the interaction between GPC1 and these molecules, researchers believe they can inhibit the growth of cancer cells and potentially prevent metastasis. In addition to its role in promoting cancer progression, GPC1 has also been found to be a promising biomarker for early detection and prognosis of cancer. Researchers have developed novel diagnostic tools that detect circulating GPC1 levels in the blood, allowing for earlier detection of cancer and more accurate monitoring of treatment response.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Glypican-1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 6-31 from the human protein was used as the immunogen for the Glypican-1 antibody.

Storage

Aliquot the Glypican-1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.