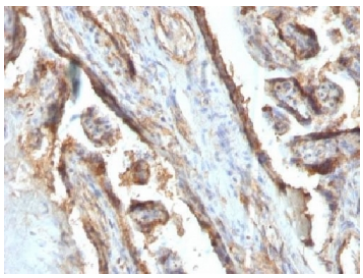
Galectin 13 Antibody / Placental Galectin Marker [clone PP13/1161] (V3295)

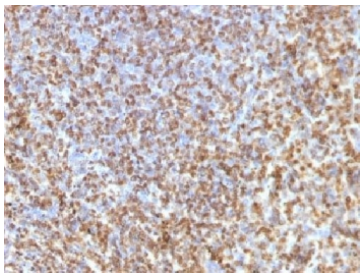
Catalog No.	Formulation	Size
V3295-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3295-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3295SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

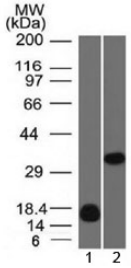
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	PP13/1161
Purity	Protein G affinity chromatography
UniProt	Q9UHV8
Localization	Cytoplasmic, cell surface
Applications	Flow cytometry: 0.5-1ug/million cells Immunofluorescence: 0.5-1ug/ml Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Limitations	This Galectin 13 Antibody / Placental Galectin Marker is available for research use only.



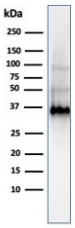
Galectin 13 Antibody in Human Placenta IHC. Immunohistochemistry testing of Galectin 13 Antibody / Placental Galectin Marker in FFPE human placenta. Heat-induced epitope retrieval was performed by boiling tissue sections in either 10 mM Tris with 1 mM EDTA, pH 9, or 10 mM citrate buffer, pH 6, for 10-20 min. This Galectin 13 Antibody demonstrates placental staining consistent with the characteristic tissue distribution of LGALS13.



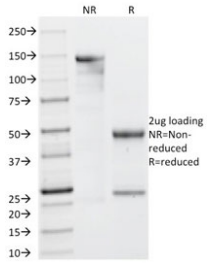
Galectin 13 Antibody in Human Spleen IHC. Immunohistochemistry testing of Galectin 13 Antibody / Placental Galectin Marker in FFPE human spleen. Heat-induced epitope retrieval was performed by boiling tissue sections in either 10 mM Tris with 1 mM EDTA, pH 9, or 10 mM citrate buffer, pH 6, for 10-20 min. This Galectin 13 Antibody demonstrates detection of LGALS13 immunoreactivity in human tissue.



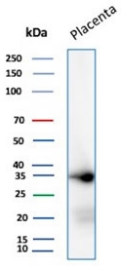
Galectin 13 Antibody in Human Recombinant Protein and K562 Cells WB. Western blot testing of Galectin 13 Antibody / Placental Galectin Marker in 1) human partial recombinant protein and 2) human K562 cell lysate. Galectin-13 has an expected molecular weight of approximately 16 kDa as a monomer and approximately 32 kDa as a homodimer. This Galectin 13 Antibody detects LGALS13 in recombinant and endogenous protein samples.



Galectin 13 Antibody in Human K562 Cells WB. Western blot testing of Galectin 13 Antibody / Placental Galectin Marker in human K562 cell lysate. Galectin-13 has an expected molecular weight of approximately 16 kDa as a monomer and approximately 32 kDa as a homodimer. The higher molecular weight species is consistent with the established ability of PP13/galectin-13 to form disulfide-linked homodimers.



Purified Galectin 13 Antibody SDS-PAGE. Electrophoretic analysis of purified, BSA-free Galectin 13 Antibody / Placental Galectin Marker was performed as confirmation of antibody integrity and purity. The purified monoclonal antibody demonstrates the expected immunoglobulin protein profile under the tested conditions.



Galectin 13 Antibody in Human Placenta WB. Western blot testing of Galectin 13 Antibody / Placental Galectin Marker in human placental tissue lysate. Galectin-13 has an expected molecular weight of approximately 16 kDa as a monomer and approximately 32 kDa as a homodimer. Detection in placental lysate is particularly relevant to the strongly placenta-associated expression of LGALS13.

Description

Galectin 13 Antibody / Placental Galectin Marker recognizes galectin-13, a beta-galactoside-binding lectin encoded by the LGALS13 gene. Also known as placental protein 13 (PP13), galectin-13 is a member of a chromosome 19 cluster of galectin genes with highly enriched placental expression. The protein contains a carbohydrate-recognition domain characteristic of the galectin family and can form a disulfide-linked homodimer. Galectin-13 binds carbohydrate structures found in placental tissue and is particularly associated with the syncytiotrophoblast.

LGALS13 expression is strongly associated with placental development and the maternal-fetal interface. Galectin-13 is predominantly produced by syncytiotrophoblasts and can be released from the placenta into the maternal circulation.

Within placental tissue, the protein has been localized to the cytoplasm and apical membrane of the syncytiotrophoblast as well as villous capillary endothelium. These expression characteristics have made galectin-13 an important target for studies of trophoblast differentiation, placentation and pregnancy biology.

Galectin-13 has also been investigated for potential immunoregulatory functions at the maternal-fetal interface. Studies suggest that PP13 can influence maternal immune-cell behavior and may contribute to the specialized immune environment required for successful placentation. Altered placental LGALS13 expression and circulating PP13 levels have been studied extensively in relation to preeclampsia and other pregnancy complications, making the protein relevant to research into placental dysfunction and maternal-fetal health.

This mouse monoclonal antibody was generated against a human recombinant protein corresponding to amino acids 23-134 of galectin-13 and is Protein G affinity purified. NSJ Bioreagents provides this Galectin 13 Antibody for research into LGALS13 expression, trophoblast biology, placental function and pregnancy-associated processes. A Placental Galectin Marker antibody targeting galectin-13 can support studies examining the molecular and immunological biology of the maternal-fetal interface.

For researchers investigating galectin-13 signaling and other proteins involved in cellular communication and regulatory pathways, see our Signal Transduction Antibodies page for additional research antibodies.

Application Notes

Titering of the Galectin 13 Antibody / Placental Galectin Marker may be required for optimal performance.

Immunogen

A human partial recombinant protein corresponding to amino acids 23-134 was used as the immunogen for the Galectin 13 antibody.

Storage

Store the Galectin 13 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Galectin 13 antibody, LGALS13 antibody, Galectin-13 antibody, PP13 antibody, placental protein 13 antibody, placental galectin antibody

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