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Anti-Galectin-13 (GAL13) / Placental Protein 13 (PP13) Antibody

Mouse Monoclonal Antibody
Catalog # AH13277

Product Information

Application	WB, IHC-P, IF, FC
Primary Accession	Q9UHV8
Other Accession	23671
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2b, kappa
Clone Names	PP13/1161
Calculated MW	16119

Additional Information

Gene ID	29124
Other Names	Gal-13; GAL13; Galactoside-binding soluble lectin 13; Galectin-13; Galectin13; Lectin galactoside binding soluble 13; LGALS13; PLAC8; Placental protein 13 (PP13); Placental tissue protein 13
Application Note	Flow Cytometry (0.5-1ug/million cells); Immunofluorescence (0.5-1ug/ml); ,Western Blotting (0.5-1ug/ml); ,Immunohistology (Formalin-fixed) (0.5-1ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0 or 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 1mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Anti-Galectin-13 (GAL13) / Placental Protein 13 (PP13) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

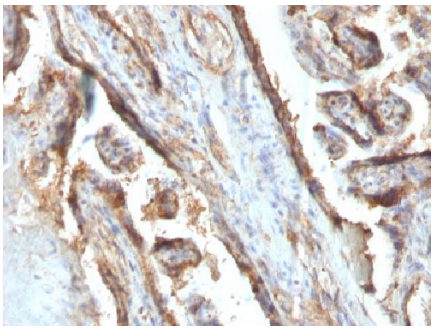
Name	LGALS13
Synonyms	PLAC8

Function	Binds beta-galactoside and lactose. Strong inducer of T-cell apoptosis (PubMed:10527825, PubMed:19497882). Has hemagglutinating activity towards chicken erythrocytes (PubMed:29343868). Acts as an activator of ferroptosis: secreted by ferroptotic cells and acts by reducing localization of SLC7A11 at the plasma membrane (PubMed:40246981).
Cellular Location	Cytoplasm. Nucleus matrix. Secreted. Note=Secreted by ferroptotic cells
Tissue Location	Detected in adult and fetal spleen, fetal kidney, adult urinary bladder and placenta. Placental expression originates predominantly from the syncytiotrophoblast

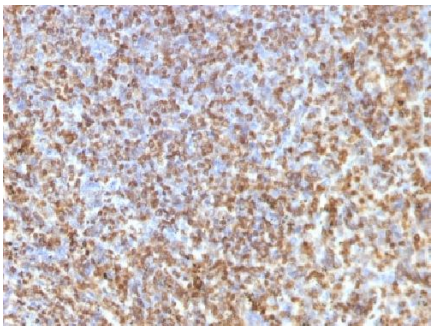
Background

It recognizes a 32kDa protein, which is identified as homodimer of galectin-13 (also known as PP13). Galectins are a family of soluble β-galactoside-binding lectins that modulate cell-to-cell adhesion and cell-to-extracellular matrix (ECM) interactions and play a role in tumor progression, pre-mRNA splicing and apoptosis. One such member, galectin-13, is a 139 amino acid protein that contains one galectin domain. Possessing lysophospholipase activity, galectin-13 exists as a disulfide-linked homodimer. Galectin-13 is suggested to have a developmental role in the placenta and may display immunobiological activity in feto-maternal blood-spaces. Screening for galectin-13 in maternal serum during the first trimester of pregnancy may serve as a diagnostic marker to predict preterm pre-eclampsia.

Images

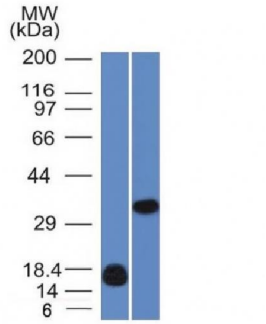


Formalin-paraffin human Placenta stained with Galectin-13 MAb (PP13/1161).



Formalin-paraffin human Spleen stained with Galectin-13MAb (PP13/1161).

Western Blot of (A) Recombinant human Galectin-13 fragment And (B) K562 Cell Lysate using Galeactin-13 MAb (PP13/1161).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.