

Product Datasheet

Lactoferrin Antibody / LTF / Lactotransferrin (orb2635651)

Catalog Number	orb2635651
Category	Antibodies
Description	Ferritin and transferrins manage necessary iron-binding functions for iron metabolism. Transferrins comprise a class of single-chain, two-sited, metal-binding proteins expressed throughout the fluid and cells of vertebrates. The three major types of transferrin include serotransferrin, lactotransferrin (lactoferrin) and ovotransferrin. Lactoferrin is found in milk, tears and leukocytes. It degrades an IgA1 protease secreted by Haemophilus influenzae and, consequently, allows the human IgA1 antibody to effectively abolish Haemophilus influenzae colonization. Lactoferrin also attenuates the pathogenic potential of Haemophilus influenzae by proteolytic degradation of the Hap adhesin. While lactoferrin may aid in the transmission of human T cell leukemia virus type 1, it inhibits HIV-1 replication at the level of viral fusion and entry into cells. The inhibitory effects of lactoferrin on mixed lymphocyte reactions suggest that it may have the ability to sense the activation status of lymphocytes.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2b, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
Purification	Protein A/G affinity

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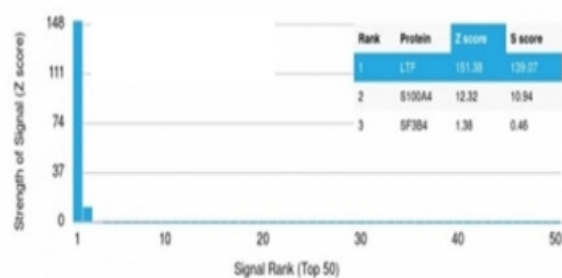
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Immunogen	A portion of amino acids 614-645 was used as the immunogen for the Lactoferrin antibody.
UniProt ID	P02788
Tested applications	IHC-P
Dilution range	Immunohistochemistry (FFPE): 1-2ug/ml
Application notes	Optimal dilution of the Lactoferrin antibody should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	LTF/4075
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.

Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using Lactoferrin antibody (clone LTF/4075). These results demonstrate the foremost specificity of the LTF/4075 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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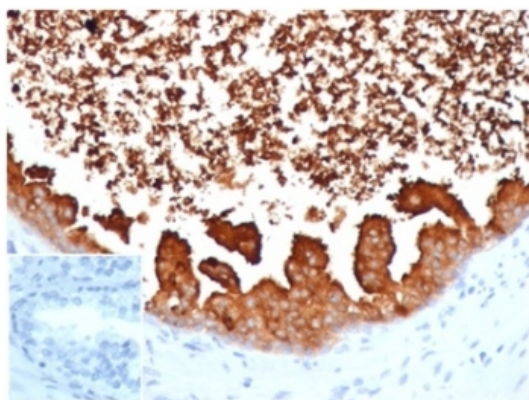
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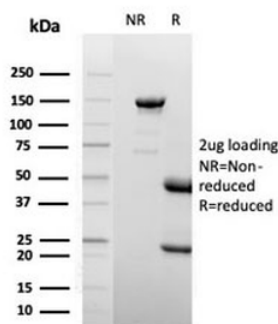
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IHC staining of FFPE human prostate carcinoma tissue with Lactoferrin antibody (clone LTF/4075). Negative control inset: PBS instead of primary antibody to control for secondary binding. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Lactoferrin antibody (clone LTF/4075) as confirmation of integrity and purity.

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