

Product datasheet for **TA322583S**

NGAL (LCN2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1000-5000 WB positive control: Human liver cancer tissue IHC: 50-200 Positive control: Human breast cancer Predicted cell location: Cytoplasm
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide peptide corresponding to a region derived from 60-73 amino acids of human lipocalin 2
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	23 kDa
Gene Name:	lipocalin 2
Database Link:	NP_005555 Entrez Gene 3934 Human P80188



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Background:

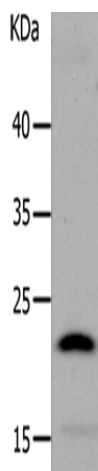
Iron-trafficking protein involved in multiple processes such as apoptosis; innate immunity and renal development. Binds iron through association with 2;5-dihydroxybenzoic acid (2;5-DHBA); a siderophore that shares structural similarities with bacterial enterobactin; and delivers or removes iron from the cell; depending on the context. Iron-bound form (holo-24p3) is internalized following binding to the SLC22A17 (24p3R) receptor; leading to release of iron and subsequent increase of intracellular iron concentration. In contrast; association of the iron-free form (apo-24p3) with the SLC22A17 (24p3R) receptor is followed by association with an intracellular siderophore; iron chelation and iron transfer to the extracellular medium; thereby reducing intracellular iron concentration. Involved in apoptosis due to interleukin-3 (IL3) deprivation: iron-loaded form increases intracellular iron concentration without promoting apoptosis; while iron-free form decreases intracellular iron levels; inducing expression of the proapoptotic protein BCL2L11/BIM; resulting in apoptosis. Involved in innate immunity; possibly by sequestering iron; leading to limit bacterial growth.

Synonyms:

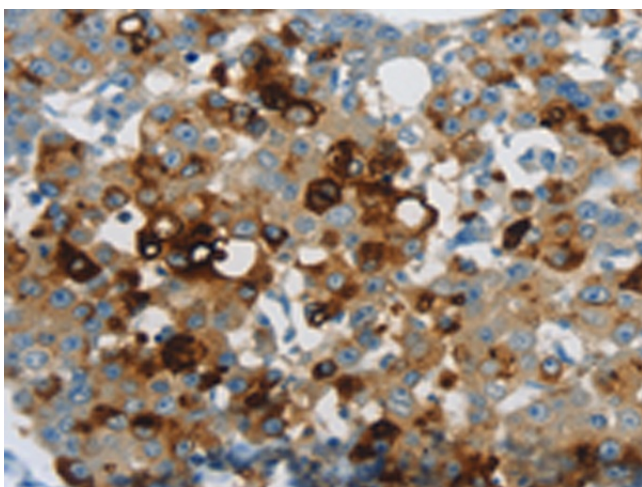
24p3; MSFI; NGAL

Protein Families:

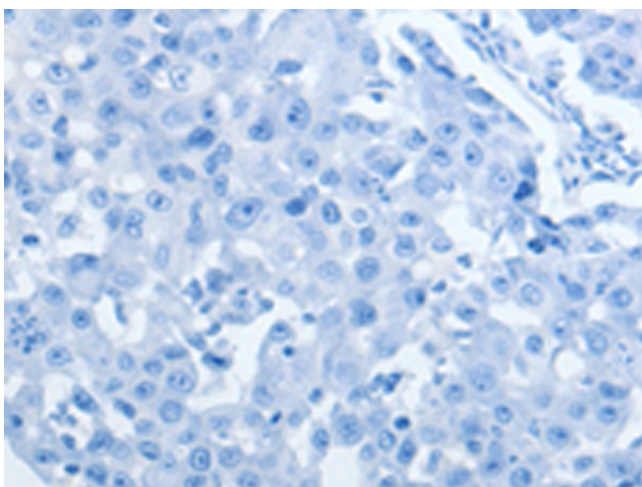
Secreted Protein

Product images:


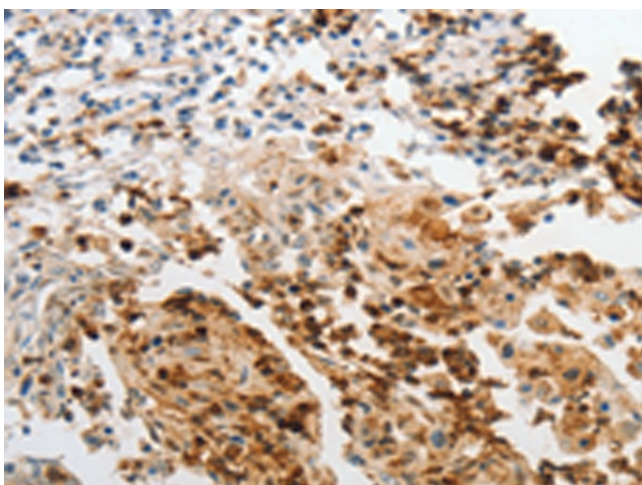
Gel: 10%SDS-PAGE
Lysate: 40 µg
Lane: Human liver cancer tissue
Primary antibody: [TA322583] (LCN2 Antibody) at dilution 1/1050
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 2 minutes



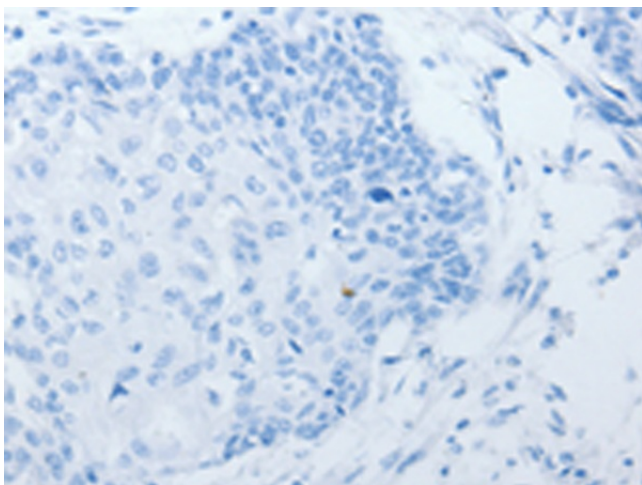
Immunohistochemistry of paraffin-embedded Human breast cancer tissue using [TA322583] (LCN2 Antibody) at dilution 1/60 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using [TA322583] (LCN2 Antibody) at dilution 1/60, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using [TA322583] (LCN2 Antibody) at dilution 1/60 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using [TA322583] (LCN2 Antibody) at dilution 1/60, treated with synthetic peptide. (Original magnification: ×200)