

Rabbit Lipocalin 2 Polyclonal Antibody | anti-Lcn2 antibody

Anti-Lipocalin 2 Antibody

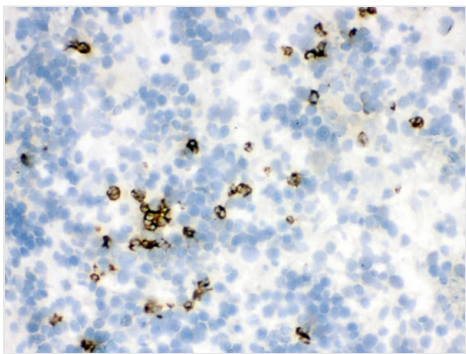
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11663	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

Lipocalin 2; Polyclonal Antibody; Anti-Lipocalin 2 Antibody; Neutrophil gelatinase-associated lipocalin; 24p3; 25 kDa alpha 2 microglobulin related subunit of MMP9; 25 kDa alpha-2-microglobulin-related subunit of MMP-9; Alpha 2 microglobulin related protein; HGNC:6526; HNL; Lcn 2; Lcn2; Lipocalin-2; Migration stimulating factor inhibitor; MSFI; Neutrophil gelatinase associated lipocalin; Neutrophil gelatinase associated lipocalin precursor; NGAL; NGAL_HUMAN; Oncogene 24p3; Oncogenic lipocalin 24p3; P25; Siderocalin; siderocalin LCN2; SV40 induced 24P3 protein; Uterocalin; lipocalin 2; anti-Lcn2 antibody

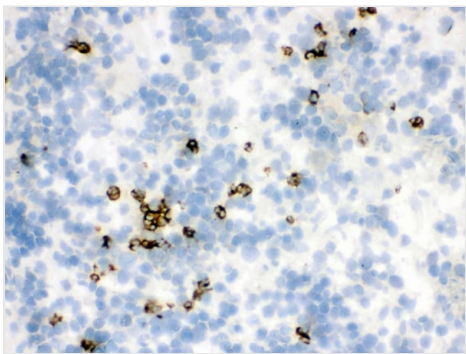
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	198
Applicable Applications for anti-Lcn2 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: Concentration: 0.1-0.5ug/ml ; Tested Species: Mouse Immunohistochemistry-P: Concentration: 1:0.5-1ug/mL ; Tested Species: Mouse, Rat ; Antigen Retrieval: By heat IHC-F:0.5-1ug/mL ; Tested Species: Mouse, Rat FC: 1-3ug/1x10 ⁶ cells ; Tested Species: Human ELISA(Cap): 1-5ug/ml ; Tested Species: Rat Tested Species: In-house tested species with positive results By heat: Boiling the paraffin sections in 10 mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections Other applications have not been tested Optimal dilutions should be determined by end users.
Immunogen	E. coli-derived rat Lipocalin 2 recombinant protein (Position: Q21-N198). Rat Lipocalin 2 shares 64.4% and 81.1 % amino acid (aa) sequence identity with human and mouse Lipocalin 2, respectively
Reconstitution	0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant detection systems	The lab provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit in Western Blot, supported by in IHC(P) and IHC(Fr).
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20°C for one year from date of receipt. After reconstitution, at 4° for one month . It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.



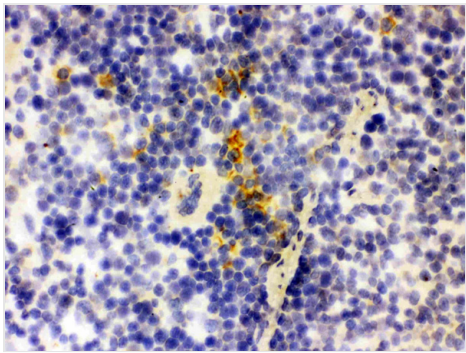
IHC (Immunohistochemistry)

Figure 7. IHC analysis of Lipocalin 2 using anti-Lipocalin 2 antibody (AAA11663).Lipocalin 2 was detected in frozen section of rat spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Lipocalin 2 Antibody (AAA11663) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



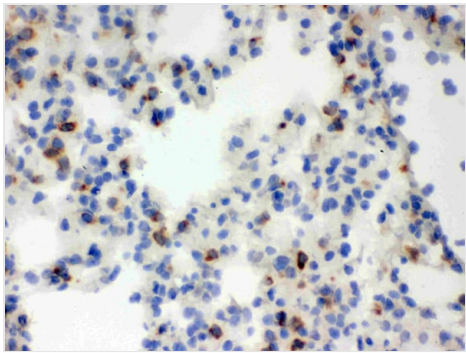
IHC (Immunohistochemistry)

Figure 6. IHC analysis of Lipocalin 2 using anti-Lipocalin 2 antibody (AAA11663).Lipocalin 2 was detected in frozen section of rat lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Lipocalin 2 Antibody (AAA11663) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



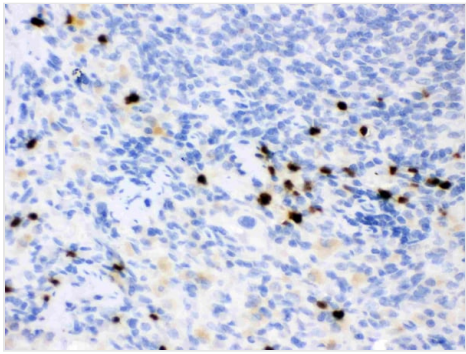
IHC (Immunohistochemistry)

Figure 5. IHC analysis of Lipocalin 2 using anti-Lipocalin 2 antibody (AAA11663).Lipocalin 2 was detected in frozen section of mouse spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Lipocalin 2 Antibody (AAA11663) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



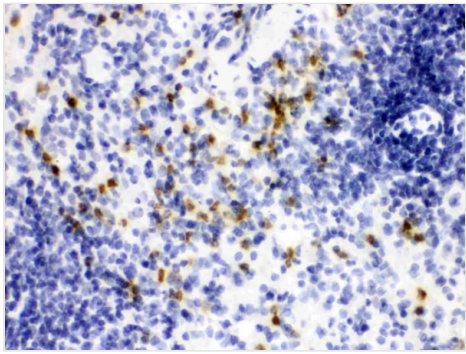
IHC (Immunohistochemistry)

Figure 4. IHC analysis of Lipocalin 2 using anti-Lipocalin 2 antibody (AAA11663).Lipocalin 2 was detected in frozen section of mouse lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Lipocalin 2 Antibody (AAA11663) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of Lipocalin 2 using anti-Lipocalin 2 antibody (AAA11663).Lipocalin 2 was detected in paraffin-embedded section of Rat Spleen Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Lipocalin 2 Antibody (AAA11663) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Lipocalin 2 using anti-Lipocalin 2 antibody (AAA11663).Lipocalin 2 was detected in paraffin-embedded section of Mouse Spleen Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Lipocalin 2 Antibody (AAA11663) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-Lcn2 antibody	Euophile gelatinase-associated lipocalin (NGAL) is a protein that in humans is encoded by the LCN2 gene. The binding of lipocalin-2 to bacterial siderophores is important in the innate immune response to bacterial infection. Upon encountering invading bacteria the toll-like receptors on immune cells stimulate the synthesis and secretion of lipocalin-2. Secreted lipocalin-2 then limits bacterial growth by sequestering iron-containing siderophores. Lipocalin-2 also functions as a growth factor.
References	1. Cowland JB, Borregaard N (October 1997). "Molecular characterization and pattern of tissue expression of the gene for neutrophil gelatinase-associated lipocalin from humans". Genomics 45 (1): 17-23. 2. Chan P, Simon-Chazottes D, Mattei MG, Guenet JL, Salier JP (September 1994). "Comparative mapping of lipocalin genes in human and mouse: the four genes for complement C8 gamma chain, prostaglandin-D-synthase, oncogene-24p3, and progesterone-associated endometrial protein map to HSA9 and MMU2". Genomics 23 (1): 145-50. 3. Flo TH, Smith KD, Sato S, Rodriguez DJ, Holmes MA, Strong RK, Akira S, Aderem A (December 2004). "Lipocalin 2 mediates an innate immune response to bacterial infection by sequestering iron". Nature 432 (7019): 917-21. 4. Kjeldsen L, Johnsen AH, Sengeløv H, Borregaard N (May 1993). "Isolation and primary structure of NGAL, a novel protein associated with human neutrophil gelatinase". J. Biol. Chem. 268 (14): 10425-32. 5. Nelson AM, Zhao W, Gilliland KL, Zaenglein AL, Liu W, Thiboutot DM (April 2008). 6. Schmidt-Ott KM, Mori K, Li JY, Kalandadze A, Cohen DJ, Devarajan P, Barasch J (February 2007). "Dual action of neutrophil gelatinase-associated lipocalin". J. Am. Soc. Nephrol. 18 (2): 407-13.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18543345
NCBI GeneID	170496
NCBI Accession #	NP_570097.1
NCBI GenBank Nucleotide #	NM_130741.1
UniProt Accession #	P30152; Q5HZF1
NCBI Official Full Name	neutrophil gelatinase-associated lipocalin
NCBI Official Synonym Full Names	lipocalin 2
NCBI Official Symbol	Lcn2
NCBI Official Synonym Symbols	Sip24
NCBI Protein Information	neutrophil gelatinase-associated lipocalin
UniProt Protein Name	Neutrophil gelatinase-associated lipocalin
UniProt Gene Name	Lcn2
UniProt Synonym Gene Names	NGAL
UniProt Entry Name	NGAL_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/lipocalin-2-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/11663>