



LAIR-2 (C-15): sc-67600

BACKGROUND

Leukocyte-associated immunoglobulin-like receptor 2 (LAIR-2), also called CD306 antigen, is a secreted 152 amino acid member of the immunoglobulin superfamily. LAIR-2 was identified by its similarity to LAIR-1. It may help modulate mucosal tolerance established by the interaction of LAIR-1 with Ep-CAM. Two isoforms have been characterized for this protein. Isoform 1, also called LAIR-2a, is the full length protein. Isoform 2, also called LAIR-2b, is missing the amino acid sequence from 122 and 138.

REFERENCES

1. Meyaard, L., van der Vuurst de Vries, A.R., de Ruiter, T., Lanier, L.L., Phillips, J.H. and Clevers, H. 2001. The epithelial cellular adhesion molecule (Ep-CAM) is a ligand for the leukocyte-associated immunoglobulin-like receptor (LAIR). *J. Exp. Med.* 194: 107-112.
2. Xie, X., Ouyang, W.M., Xue, J.N., Zhang, X.H., Liu, F., Zhuang, R. and Jin, B.Q. 2004. Cloning, prokaryotic expression of LAIR and identification of their immunological reactivities. *Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi* 19: 118-120.
3. Xu, X.G., Wang, C.Y., Xie, X., Xue, J.N., Ouyang, W.M., Jian, J.L. and Jin, B.Q. 2005. Identification of cell lines expressing the putative ligand(s) for LAIR-1(CD305) and LAIR-2(CD306). *Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi* 21: 553-556, 560.

CHROMOSOMAL LOCATION

Genetic locus: LAIR2 (human) mapping to 19q13.4.

SOURCE

LAIR-2 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of LAIR-2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-67600 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

LAIR-2 (C-15) is recommended for detection of LAIR-2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for LAIR-2 siRNA (h): sc-62538 and as shRNA Plasmid control antibody for LAIR-2 shRNA Plasmid (h): sc-62538-SH.

Molecular Weight of LAIR-2: 16 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.