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Lano Antibody
Catalog # ASC10161

Specification

Lano Antibody - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	Q9BTT6
Other Accession	AAK72246, 14701834
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**Lano antibody can be used for detection of Lano by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL. For immunofluorescence start at 20 µg/mL.**

Lano Antibody - Additional Information

Gene ID **55227**

Other Names
Lano Antibody: LANO, dJ523E19.1, LANO, Leucine-rich repeat-containing protein 1, LANO adapter protein, leucine rich repeat containing 1

Target/Specificity
LRRC1;

Reconstitution & Storage
Lano antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
Lano Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Lano Antibody - Protein Information

Name LRRC1

Synonyms LANO

Cellular Location
Cytoplasm. Membrane; Peripheral membrane protein. Note=Localized at the basolateral side of epithelial cells

Tissue Location

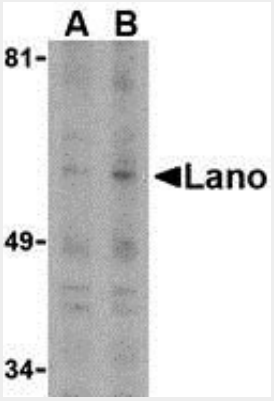
Expressed strongly in testis and placenta, followed by heart, lung, kidney, thyroid, trachea, colon, prostate and pancreas

Lano Antibody - Protocols

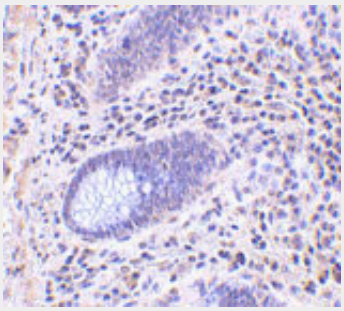
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Lano Antibody - Images



Western blot analysis of Lano in PC-3 whole cell lysate with Lano antibody at (A) 1 or (B) 2 µg /ml.



Immunohistochemistry of Lano in human colon tissue with Lano antibody at 10 µg/mL.

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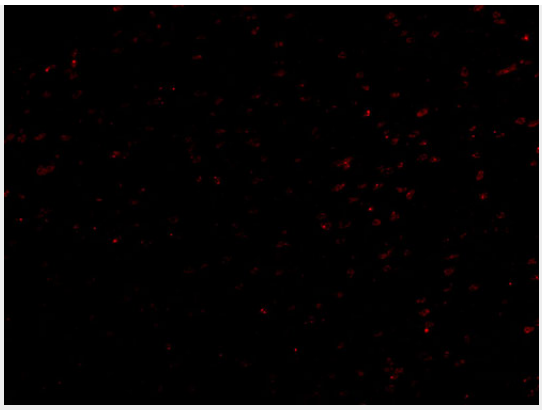

Immunofluorescence of Lano in human colon tissue with Lano antibody at 20 µg/mL.

Lano Antibody - Background

Lano Antibody: Lano is a member of the LAP (leucine-rich repeats and PDZ) family of proteins that also includes Densin-180, Erbin, and hScribble. The LAP proteins generally contain multiple leucine-rich repeat (LRR) domains which serve to target them to the basolateral membrane of epithelial cells. Lano is unique in that it alone does not possess one or more PDZ (PSD95/DLG/ZO-1) domains as do the other members of the LAP family. However, it can bind to the PDZ domain of Erbin in addition to those of membrane-associated and guanylate kinase (MAGUK) proteins which regulate adhesion and plasticity at cell junctions. It has been suggested that it is through these interaction that these LAP proteins participate in the maintenance of proper embryonic development and integrity of epithelial tissues.

Lano Antibody - References

Saito H, Santoni M-J, Jaulin-Bastard F, et al. Lano, a novel LAP protein directly connected to MAGUK proteins in epithelial cells. J. Biol. Chem. 2001; 276:32051-5.
Legouis R, Jaulin-Bastard F, Schott S, et al. Basolateral targeting by leucine-rich repeat domains in epithelial cells. EMBO Rep. 2003; 4:1096-102.
Funke L, Dakoji S, Bredt DS. Membrane-Associated Guanylate Kinases Regulate Adhesion and Plasticity at Cell Junctions. Annu. Rev. Biochem. 2005; 74:219-45.
Bilder D and Perrimon N. Localization of apical epithelial determinants by the basolateral PDZ protein Scribble. Nature 2000; 403:676-80.