

CD104
Purified Mouse Monoclonal Antibody
Catalog # AO2676a**Specification**

CD104 - Product Information

Application	E, WB, IHC
Primary Accession	P16144
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2a
Calculated MW	202.2kDa KDa
Immunogen	

Purified recombinant fragment of human CD104 (AA: extra 29-206) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

CD104 - Additional Information

Gene ID 3691

Other Names

ITGB4; GP150

Dilution

E~~ 1/10000
WB~~ 1/500 - 1/2000
IHC~~ 1/200 - 1/1000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CD104 is for research use only and not for use in diagnostic or therapeutic procedures.

CD104 - Protein Information

Name ITGB4

Function

Integrin alpha-6/beta-4 is a receptor for laminin. Plays a critical structural role in the hemidesmosome of epithelial cells. Is required for the regulation of keratinocyte polarity and motility. ITGA6:ITGB4 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed:

target="_blank">20682778). ITGA6:ITGB4 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:22351760). ITGA6:ITGB4 binds to IGF2 and this binding is essential for IGF2 signaling (PubMed:28873464).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell membrane; Lipid-anchor. Cell junction, hemidesmosome Note=Colocalizes with DST at the leading edge of migrating keratinocytes

Tissue Location

Integrin alpha-6/beta-4 is predominantly expressed by epithelia. Isoform beta-4D is also expressed in colon and placenta Isoform beta-4E is also expressed in epidermis, lung, duodenum, heart, spleen and stomach

CD104 - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD104 - Images

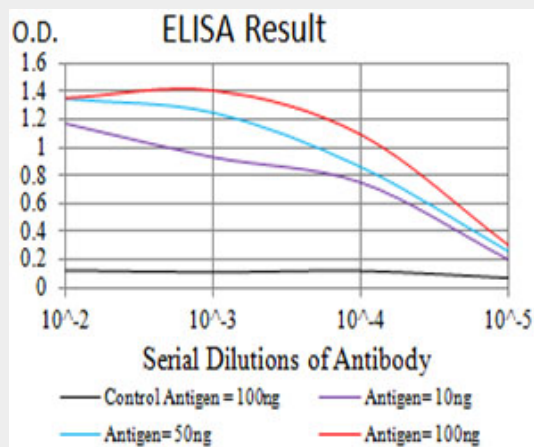


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

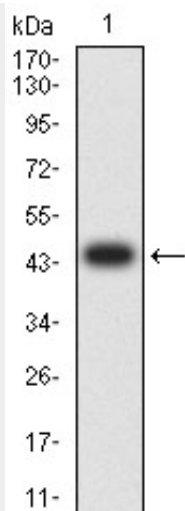


Figure 2: Western blot analysis using CD104 mAb against human CD104 (AA: extra 29-206) recombinant protein. (Expected MW is 46.5 kDa)

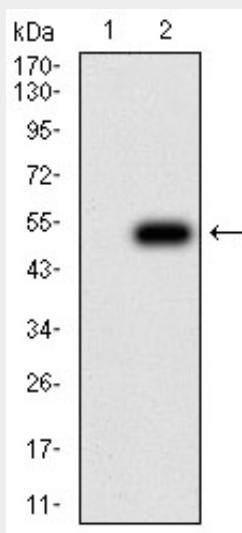


Figure 3: Western blot analysis using CD104 mAb against HEK293 (1) and CD104 (AA: extra 29-206)-hlgGFc transfected HEK293 (2) cell lysate.

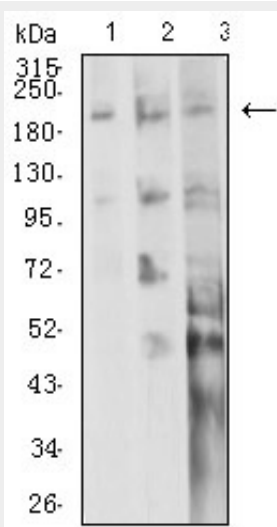


Figure 4:Western blot analysis using CD104 mouse mAb against A549 (1), A431 (2), and SW620 (3) cell lysate.

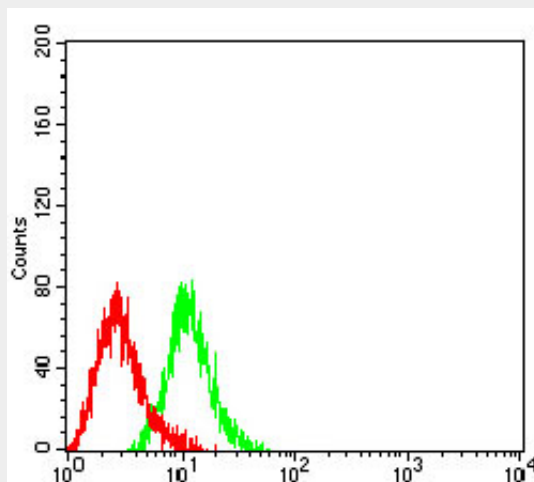


Figure 5:Flow cytometric analysis of HL-60 cells using CD104 mouse mAb (green) and negative control (red).

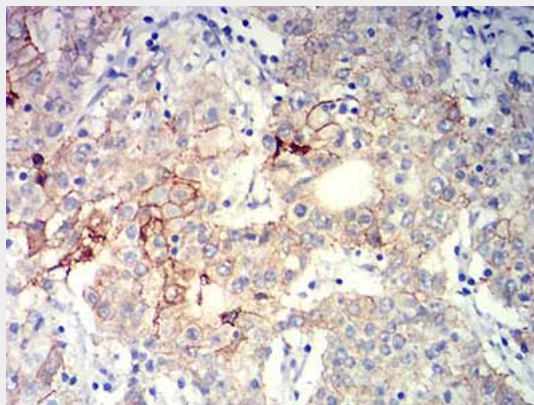


Figure 6:Immunohistochemical analysis of paraffin-embedded stomach cancer tissues using CD104 mouse mAb with DAB staining.

CD104 - References

1.Sci Rep. 2015 Nov 17;5:16529.2.Acta Derm Venereol. 2015 Jan;95(1):112-3.