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CD104

Purified Mouse Monoclonal Antibody
Catalog # AO2677a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P16144
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1D6B4
Isotype	Mouse IgG2a
Calculated MW	202167
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

Additional Information

Gene ID	3691
Other Names	ITGB4; GP150
Dilution	WB~~ 1/500 - 1/2000 IHC~~ 1/200 - 1/1000 ICC~~N/A E~~ 1/10000
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.

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: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

References

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

Images

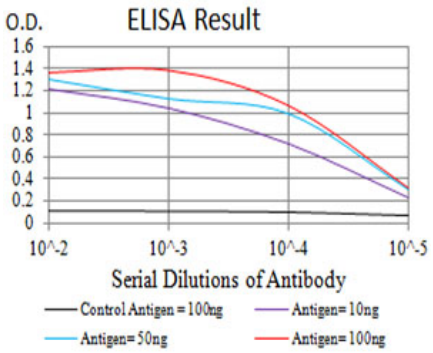


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

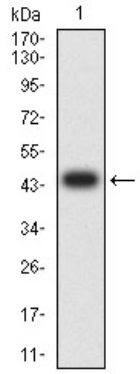


Figure 2:Western blot analysis using CD104 mAb against human CD104 (AA: extra 29-206) recombinant protein. (Expected MW is 46.5 kDa)

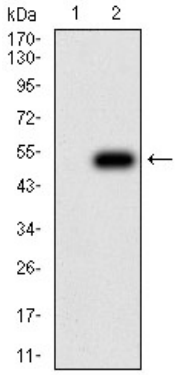
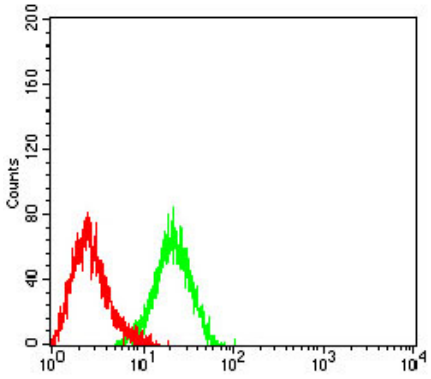


Figure 3:Western blot analysis using CD104 mAb against HEK293 (1) and CD104 (AA: extra 29-206)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 4:Flow cytometric analysis of HL-60 cells using CD104 mouse mAb (green) and negative control (red).



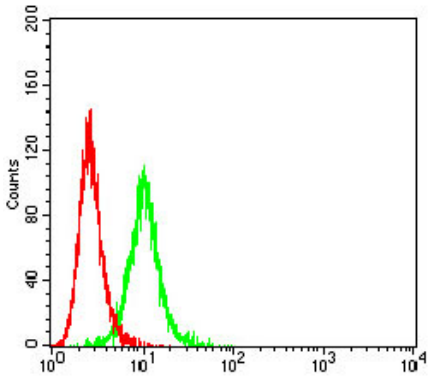


Figure 5:Flow cytometric analysis of K562 cells using CD104 mouse mAb (green) and negative control (red).

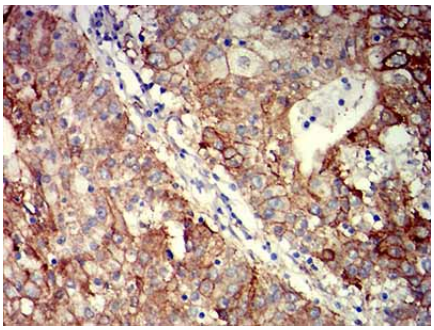


Figure 6:Immunohistochemical analysis of paraffin-embedded stomach cancer tissues using CD104 mouse mAb with DAB staining.