Anti-CD105 Antibody [H4-A9]

EM1709-99

Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, IHC-P, FC
Molecular Wt:	71 kDa
Clone number:	H4-A9

Description: Hereditary hemorrhagic telangiectasia (HHT) is an autosomal dominant disorder characterized by vascular abnormalities such as dilated vessels, hemorrhages, liver and lung congestion, and brain or heart ischemia. Mutations in two genes, Endoglin (also designated CD105) and ALK-1 (Activin receptor-like kinase 1, also designated TGFβ superfamily RI), are responsible for HHT. Endoglin is mutated in HHT1, and ALK-1 is mutated in HHT2, both of which are thought to be caused by haploinsufficiency. Endoglin and ALK-1 are type III and type I members of the TGFβ receptor superfamily, respectively, that are expressed on vascular endothelial cells. Endoglin can only bind ligands of the TGFβ superfamily via association with the respective ligand binding receptors for TGFβ1, TGFβ3, Activin-A, BMP-2 and BMP-7.

Immunogen: Recombinant protein

Positive control: CD105-hIgGFc transfected HEK293 cell lysate, HepG2, human kidney cancer tissue, human stomach cancer tissue.

Subcellular location: Membrane.

Database links: SwissProt: P17813 Human

Recommended Dilutions:

WB	1:500-1:1,000
IF-cell	1:100-1:500
IHC-P	1:100-1:500
FC	1:100-1:200

Storage Buffer: Purified antibody in PBS with 0.05% sodium azide.

Storage Instruction: 4℃; -20℃ for long term storage.

Purity: Protein A affinity purified.

Images

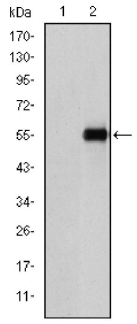

Fig1: Western blot analysis of CD105 on HEK293 (1) and CD105-hIgGFc transfected HEK293 (2) cell lysate using anti-CD105 antibody at 1/1,000 dilution.

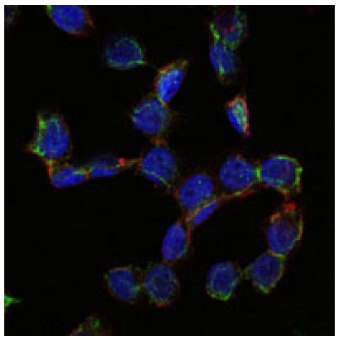

Fig2: ICC staining CD105 (green) and actin filaments (red) in HepG2 cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

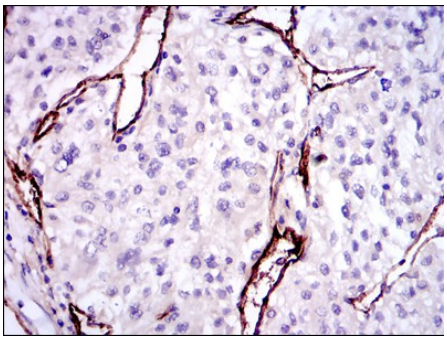

Fig3: Immunohistochemical analysis of paraffin-embedded human kidney cancer tissue using anti-CD105 antibody. Counter stained with hematoxylin.

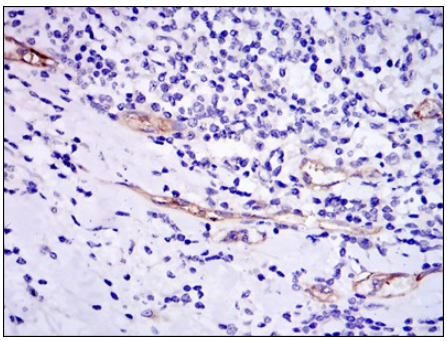

Fig4: Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue using anti-CD105 antibody. Counter stained with hematoxylin.

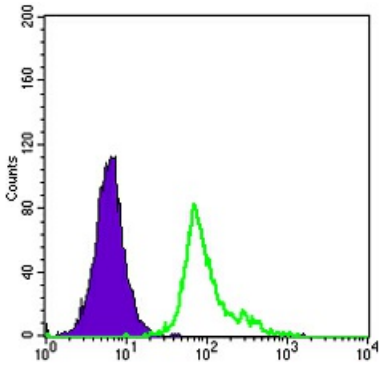

Fig5: Flow cytometric analysis of HepG2 cells with CD105 antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; purple).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".