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Anti-CD105 Rabbit mAb [36B50]

Catalog No.: A52044

Basic Information

Catalog No. (Cat.No.)	A52044
Host species	Rabbit
Reactivity	Human
Applications	WB,IHC,IP,IF,ELISA
Synonyms	CD105,ENDOGLIN

Product Information

Target	CD105
Molecular Weight(Calculated)	70 kDa
Molecular Weight(Observed)	95 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	36B50
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:100-1:200
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Endoglin
Gene Name	*ENG*
Domain	NA
Background	CD105 (Endoglin) is a co-receptor of TGF-β receptor superfamily and functions in modulating TGF-β superfamily signaling. Predominantly expressed on proliferating vascular endothelial cells, CD105 is also detected on subsets of stem cells and tumor cells. As a co-receptor, it binds TGF-β1 and TGF-β3 and tunes downstream Smad cascades to regulate endothelial proliferation, migration and angiogenesis. Physiologically, it contributes to embryonic vascular development and tissue injury repair. In pathological contexts, CD105 is highly enriched on tumor neovessels, promoting angiogenesis to sustain tumor growth and distant metastasis. CD105 acts as a well-established marker for tumor neovascularization, applied for angiogenesis assessment, anti-angiogenic drug efficacy testing, stem cell characterization and vascular disease research.