

EphrinB2 | *Validation File*

TARGET EphrinB2/EFNB2

CLONE NAME 163M

DESCRIPTION mouse monoclonal

ANTIGEN USED extracellular region of human ephrinB2 (aa27-aa227)

ISOTYPE IgG1

SPECIES REACTIVITY human

LOCALIZATION cytoplasmic

POSITIVE CONTROL tonsil

STORAGE BUFFER Tissue culture supernatant: 0.02% sodium azide

STORAGE Aliquot and store at 4C. Do not freeze

 Recommended

 Inconclusive

 Not Recommended

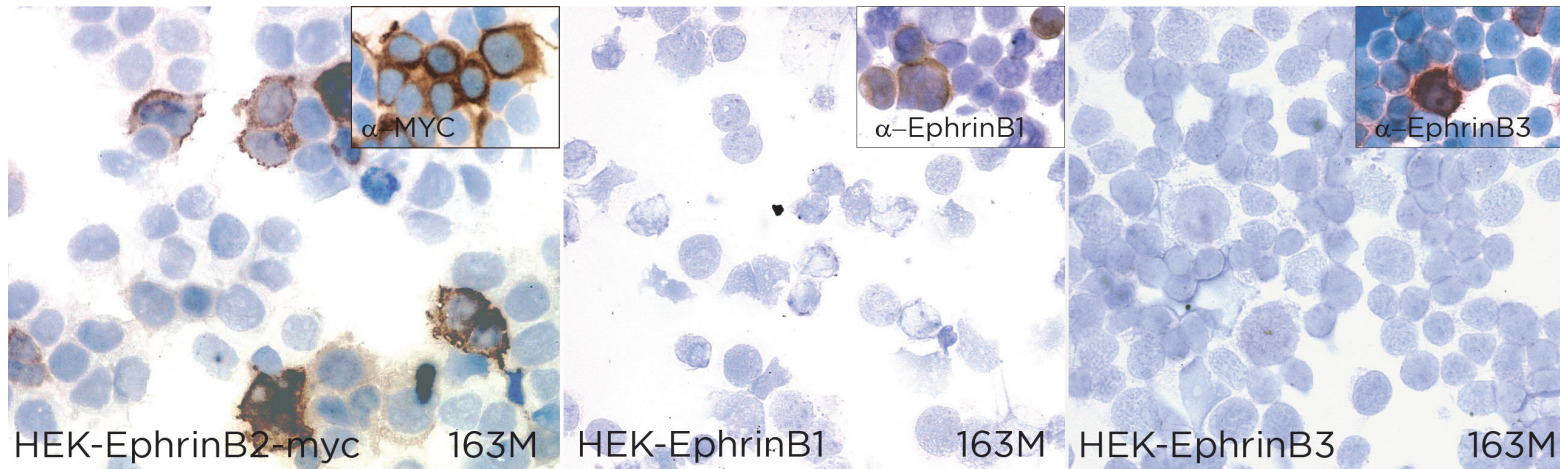
 Not Tested

APPLICATIONS

● | ICC | *Immunocytochemistry*

163M mAb is able to detect human EphrinB2 protein in immunocytochemistry

To confirm that 163M mAb recognizes human EphrinB2 protein, immunocytochemistry on frozen cytospin preparations of human EphrinB2, EphrinB1 and EphrinB3 expressed in HEK293T was performed. Anti-myc, anti-EphrinB1 and anti-EphrinB3 antibodies were used as positive controls.



● | WB | **Western Blotting**

163M mAb is able to detect human EphrinB2 protein by WB.

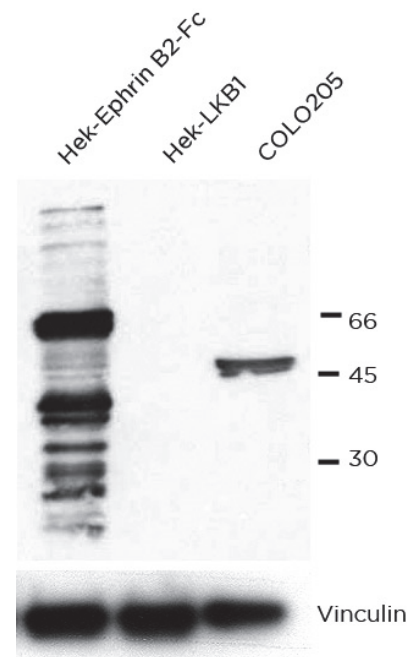
DILUTION no dilution (neat supernatant)

Predicted molecular weight: **37kDa**
Observed molecular weight: **47kDa**

LANES

Lane 1 HEK-EphrinB2-Fc	(20ug) (+)
Lane 2 HEK-LKB1	(20ug) (-)
Lane 3 COLO205 cell line	(50ug) (+)

Vinculin was used as loading control

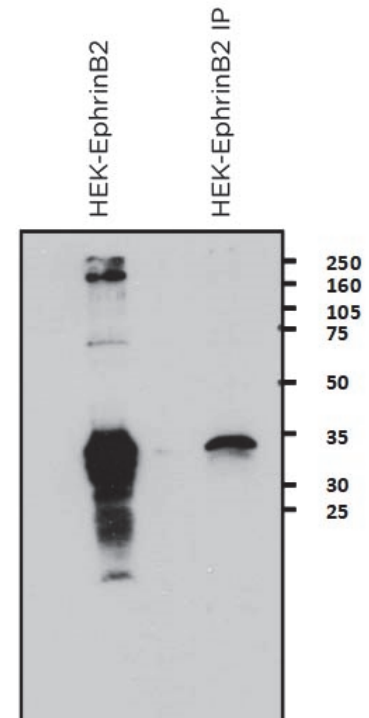


● | IP | **Immunoprecipitation**

163M mAb is able to detect human EphrinB2 protein by immunoprecipitation

LANES

Lane 1 Hek-EphrinB2-Fc (20ug) (+)
Lane 2 IP 163M mAb and WB 163M+mouse True Blot (20ug) (+)

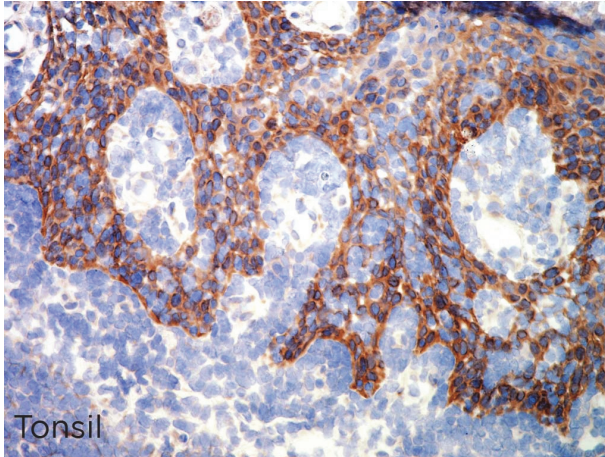


● | IHC-F | ***Immunohistochemistry (frozen)***

163M mAb can be used to detect EphrinB2 protein in human frozen tissues.

TISSUE SAMPLE Human Tonsil (epithelial zone).

DILUTION No dilution (neat supernatant)



● | IHC-P | **Immunohistochemistry (paraffin)**

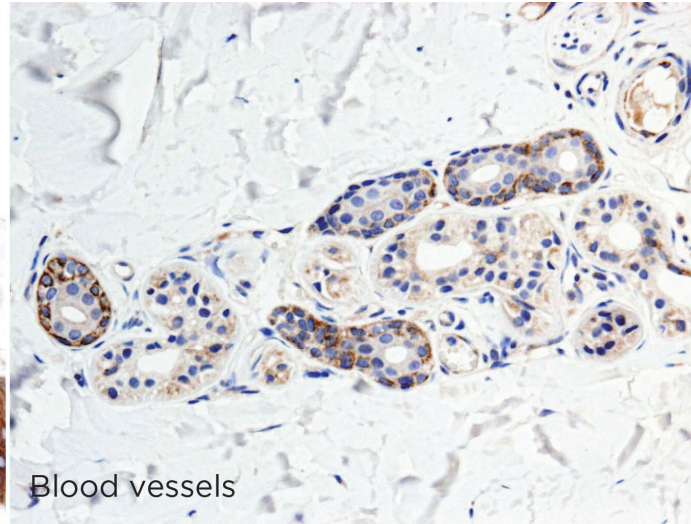
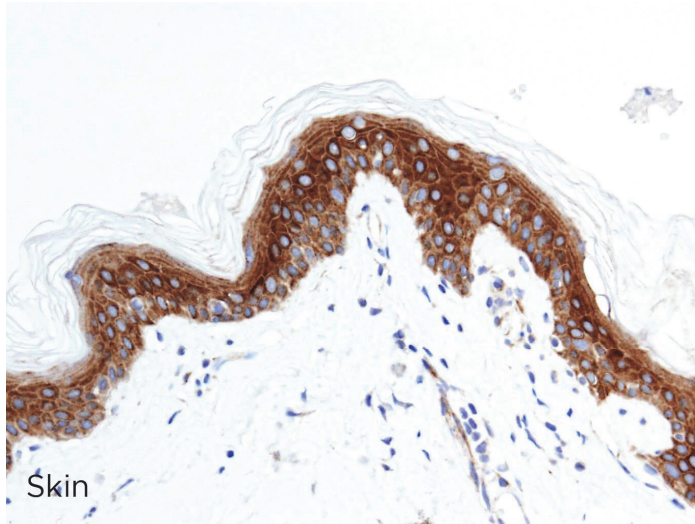
163M mAb can be used to detect EphrinB2 protein in human paraffin tissues

TISSUE SAMPLE Human skin and blood vessels

DILUTION 1:2 supernatant

ANT. RETRIEVAL 20 minutes ER2 (Tris-EDTA)

DETECTION SYSTEM Novolink kit (BondMax Leica)

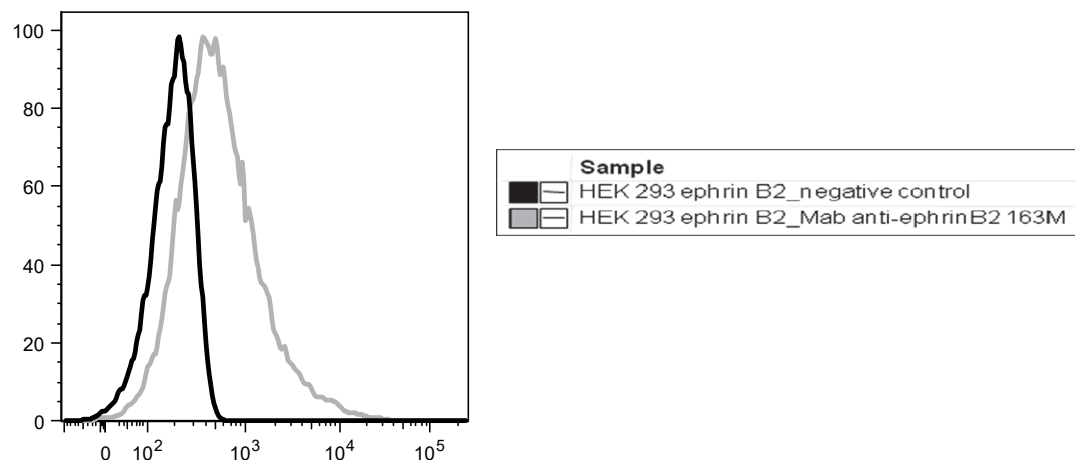


● | FC | **Flow Cytometry**

163M antibody can be used to detect human EphrinB2 protein by FACS

SAMPLE HEK293T cells transfected with human EphrinB2 gene

DILUTION 40ul of supernatant/tube



● | IF | **Immunofluorescence (paraffin)** Not Recommended

SOLD BY Sigma and Abcam

REFERENCES

Andrew C McClelland, Sean I Sheffler-Collins, Matthew S Kayser, Matthew B Dalva. Ephrin-B1 and ephrin-B2 mediate EphB-dependent presynaptic development via syntenin-1. Proceedings of the National Academy of Sciences of the United States of America. 1 December 2009

Yuichi Oike, Yasuhiro Ito, Koichi Hamada et al. Regulation of vasculogenesis and angiogenesis by EphB/ephrin-B2 signaling between endothelial cells and surrounding mesenchymal cells. Blood. 15 August 2002.