

NKX2.3 | Validation file

Target Homo sapiens NK2 homeobox 3 (NKX2-3)

Clone name 5GAL454C

Description rat monoclonal

Antigen used hNKX-2.3-GST recombinant protein

Epitope recognition: LNSLAAAD

Isotype IgG2a

Antigen Species human

Localization nuclear

Positive control human spleen

Storage Buffer Tissue culture supernatant: 0.02% sodium azide

Purified Ab: PBS plus 1%BSA and 0.02% sodium azide. Concentration: 1mg/ml

Storage Aliquot and store at 4C. Do not freeze

 Recommended

 Inconclusive

 Not Recommended

 Not Tested

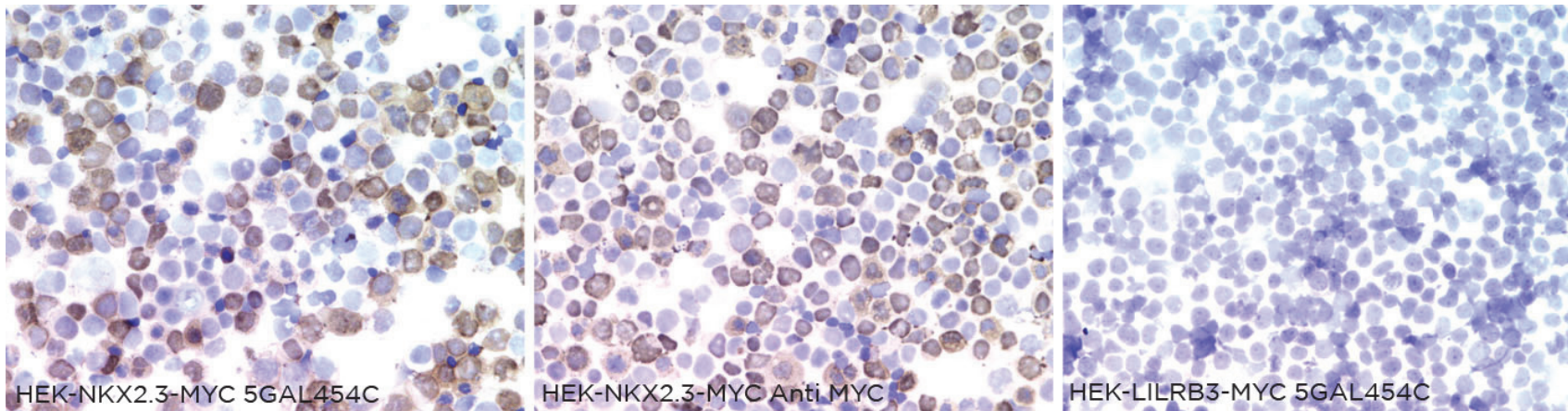
APPLICATIONS

● | ICC | *Immunocytochemistry*

5GAL454C is able to detect human NKX2.3 protein in immunocytochemistry

DILUTION neat supernatant

To confirm that 5GAL454C mAb recognizes human NKX2.3 protein, immunocytochemistry on frozen cytospin preparations of MYC-tagged NKX2.3 expressed in HEK293T was performed. Anti-myc antibody was used as positive control. HEK-LILRB3 transfected cells were used as negative control.



● | WB | **Western Blotting**

5GAL454C mAb is able to detect human NKX2.3 protein by WB.

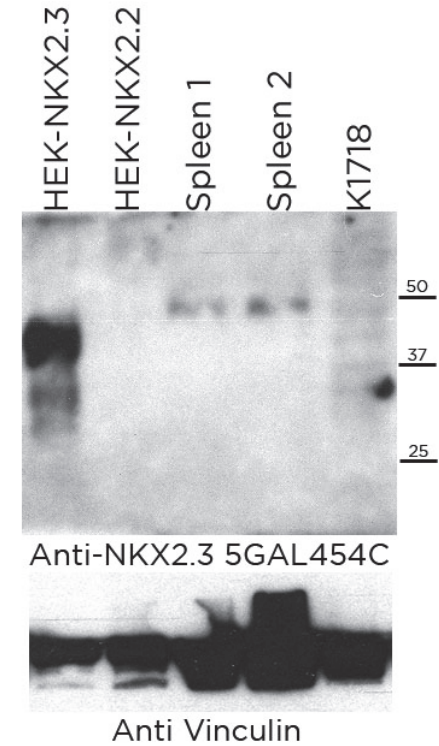
DILUTION No dilution (neat supernatant)
Anti-Vinculin antibody 1:10000

Predicted molecular weight: **38kDa**
Observed molecular weight: **38kDa**

LANES

Lane 1 HEK-NKX2.3	(10ug) (+)
Lane 2 HEK-NKX2.2	(10ug) (-)
Lane 3 Human spleen 1	(100ug) (+)
Lane 4 Human spleen 2	(100ug) (+)
Lane 5 Human K1718 (splenic lymphoma cell line)	(100ug) (-)

Anti-Vinculin was used as a loading control



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

5GAL454C mAb can be used to detect NKX2.3 protein in human paraffin tissues

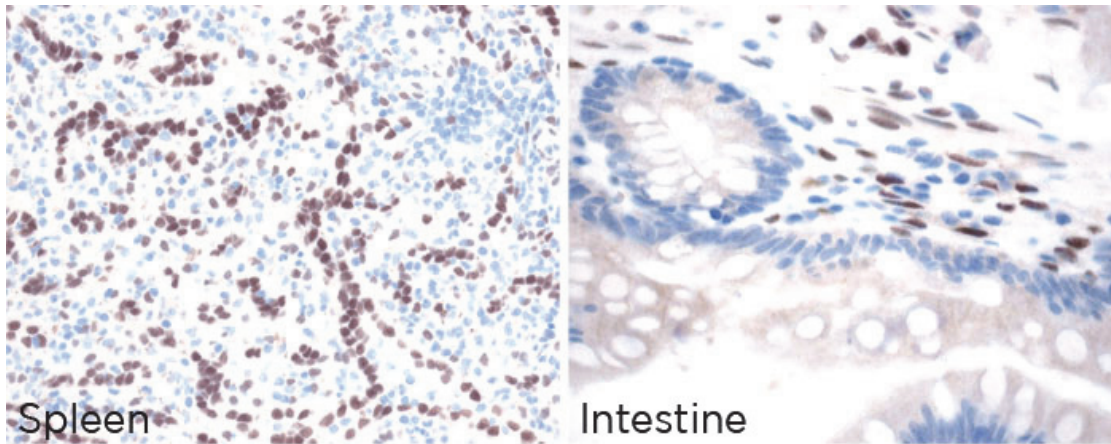
TISSUE SAMPLE Human spleen and intestine

DILUTION 1:10 (supernatant)

1:500 Purified antibody (1mg/ml)

ANT. RETRIEVAL 20 minutes ER2 (Tris-EDTA)

DETECTION SYSTEM Novolink kit (BondMax Leica)



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

● | IHC-F | **Immunohistochemistry (frozen)** Not Recommended

● | FC | **Flow Cytometry** Not tested

● | IP | **Immunoprecipitation** Not Test

REFERENCES

Vojkovics D, Kellermayer Z, Kajtár B, Roncador G, Vincze Á, Balogh P. Nkx2-3-A Slippery Slope From Development Through Inflammation Toward Hematopoietic Malignancies. *Biomark Insights*. 2018 Feb 6;13.

Eloy F, Robles, Maria Mena-Varas, Laura et al. Homeobox NKX2-3 promotes marginal-zone lymphomagenesis by activating B-cell receptor signalling and shaping lymphocyte dynamics. *Nat Commun*. 2016; 7:11889.