

## 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

**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

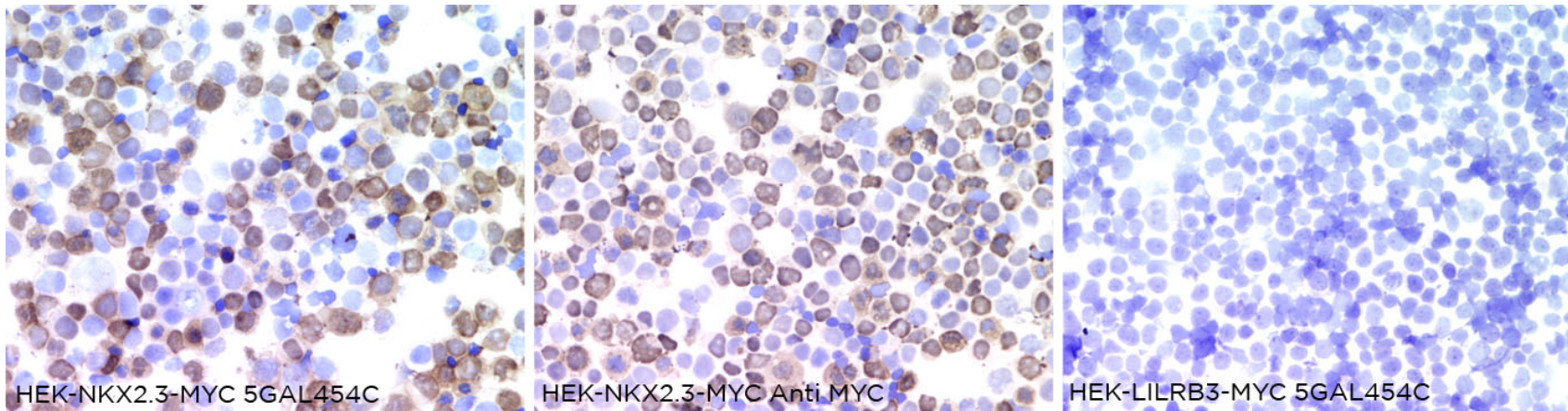
# APPLICATIONS

## ● | 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.

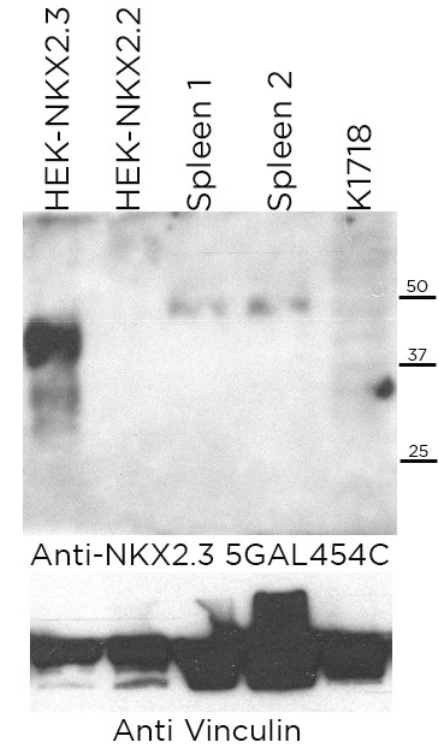
**DILUTION** No dilution (neat supernatant)  
Anti-Vinculin antibody 1:10000

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

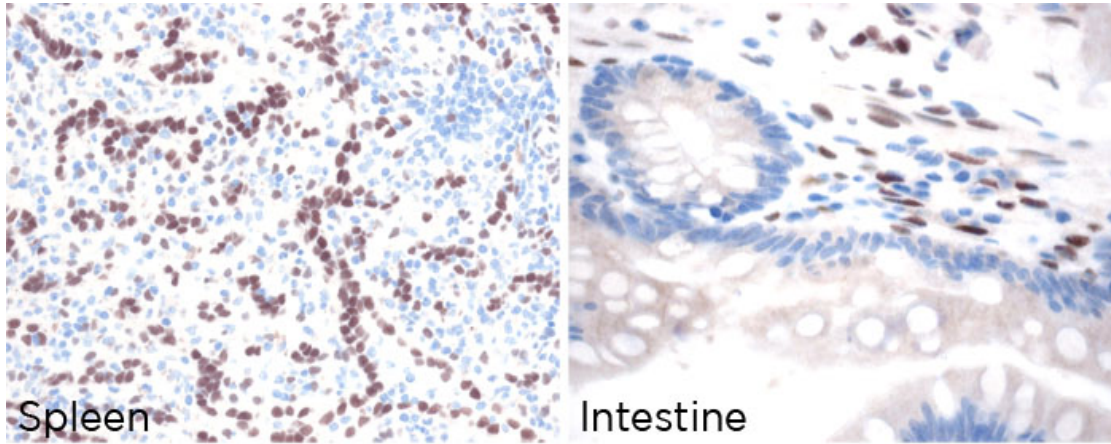
**TISSUE SAMPLE** Human spleen and intestine

**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.