

NKX2.3

CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	rat anti human
CLONE NAME:	5GAL454C
PROTEIN:	Homeobox protein Nkx-2.3 (Homeobox protein NK-2 homolog C)
PROTEIN WEB:	http://www.uniprot.org/uniprot/Q8TAU0
ANTIGEN USED:	hNKX-2.3-GST recombinant protein
FUSION PARTNER:	NS1/Ag4-1 (NS1) cells
ISOTYPE:	IgG2a
SPECIES REACTIVITY:	human
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze

DESCRIPTION

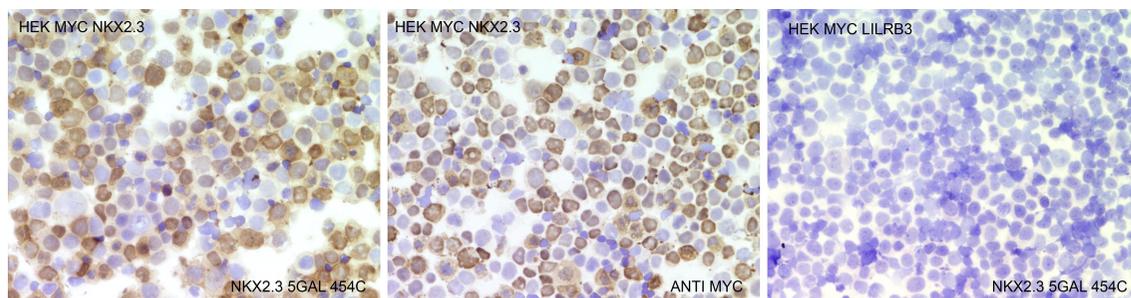
This gene encodes a homeodomain-containing transcription factor. The encoded protein is a member of the NKX family of homeodomain transcription factors. Studies of similar proteins in mouse and rat have indicated a potential role in cellular differentiation.[provided by RefSeq, Mar 2010]

REFERENCES

Homeobox NKX2-3 promotes marginal-zone lymphomagenesis by activating B-cell receptor signalling and shaping lymphocyte dynamics. Eloy F. Robles, Maria Mena-Varas, Laura Barrio, Sara V. Merino-Cortes, Péter Balogh, Ming-Qing Du, Takashi Akasaka, Anton Parker, Sergio Roa, Carlos Panizo, Idoia Martin-Guerrero, Reiner Siebert, Victor Segura, Xabier Agirre, Laura Macri-Pellizeri, Beatriz Aldaz, Amaia Vilas-Zornoza, Shaowei Zhang, Sarah Moody, Maria Jose Calasanz, Thomas Tousseyn, Cyril Broccardo, Pierre Brousset, Elena Campos-Sanchez, Cesar Cobaleda, Isidro Sanchez-Garcia, Jose Luis Fernandez-Luna, Ricardo Garcia-Muñoz, Esther Pena, Beatriz Bellosillo, Antonio Salar, Maria Joao Baptista, Jesús Maria Hernandez-Rivas, Marcos Gonzalez, Maria Jose Terol, Joan Climent, Antonio Ferrandez, Xavier Sagaert, Ari M. Melnick, Felipe Prosper, David G. Oscier, Yolanda R. Carrasco, Martin J. S. Dyer, and Jose A. Martinez-Climent. Nat Commun. 2016; 7.

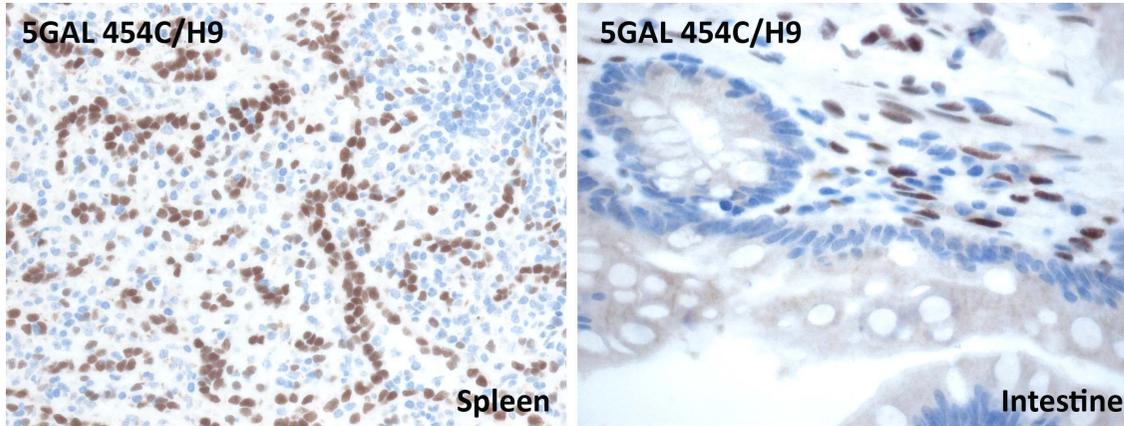
APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytopspins									
Paraffin tissue									
Recommended	5GAL4 54C	1:10	supernatant	Tris-EDTA	Novolink	Spleen		nuclear	
Immunofluorescence									



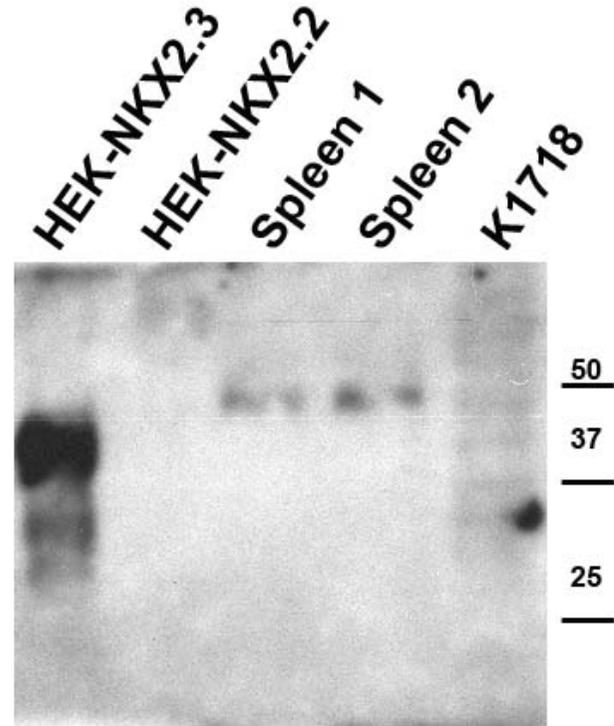
Cytopspin slides of transfected HEK cells.

The transfected HEK cell line with NKX2.3 showed specific labelling with 5GAL454C antibody. HEK-LILRB3 transfected cells were used as negative control. Anti-myc antibody was used as positive control.



Immunostaining of 5GAL454C antibody on human paraffin tissues.

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
Western Blotting								
Recommended	5GAL454 C	Neat supernatant		Human spleen		38kDa	38kDa	
Immunoprecipitation								



Anti-NKX2.3 5GAL454C



Anti-Vinculin

WB of 5GAL454C mAb in human cell lines.

Lane 1 HEK-NKX2.3-MYC transfected cells (+)

Lane 2 HEK-NKX2.2-MYC transfected cells (-)

Lane 3 Human spleen (+)

Lane 4 Human spleen (+)

Lane 5 Human K1718 splenic lymphoma cell line (-)

Anti-Vinculin was used as a loading control.