NANOG

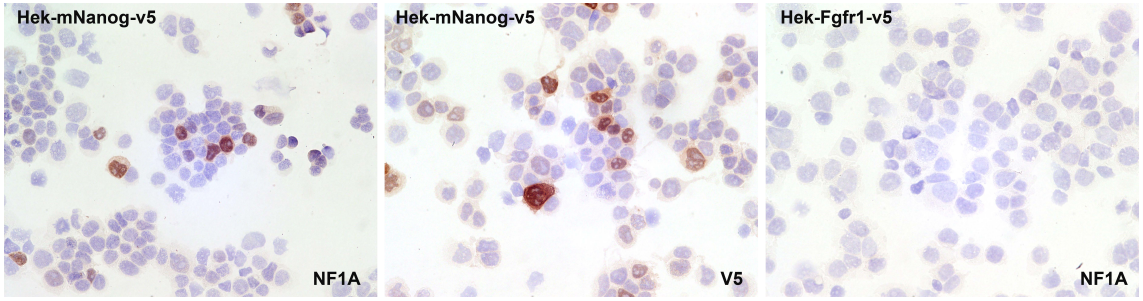
CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
TYPE:	rat anti mouse
CLONE NAME:	NF1A
PROTEIN:	Mouse full length NANOG (Homeo box transcription factor nanog) protein
PROTEIN WEB:	http://www.ncbi.nlm.nih.gov/protein/110625918
ANTIGEN USED:	HIS-mNANOG full length protein
FUSION PARTNER:	myeloma p3-NS1/Ag4-1 (NS1) cell
ISOTYPE:	IgG2a
SPECIES REACTIVITY:	mouse
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze

DESCRIPTION

NANOG is a gene expressed in embryonic stem cells (ESCs) and is thought to be a key factor in maintaining pluripotency. NANOG is thought to function in concert with other factors such as POU5F1 (Oct-4) and SOX2 to establish ESC identity. These cells offer an important area of study because of their ability to maintain pluripotency.

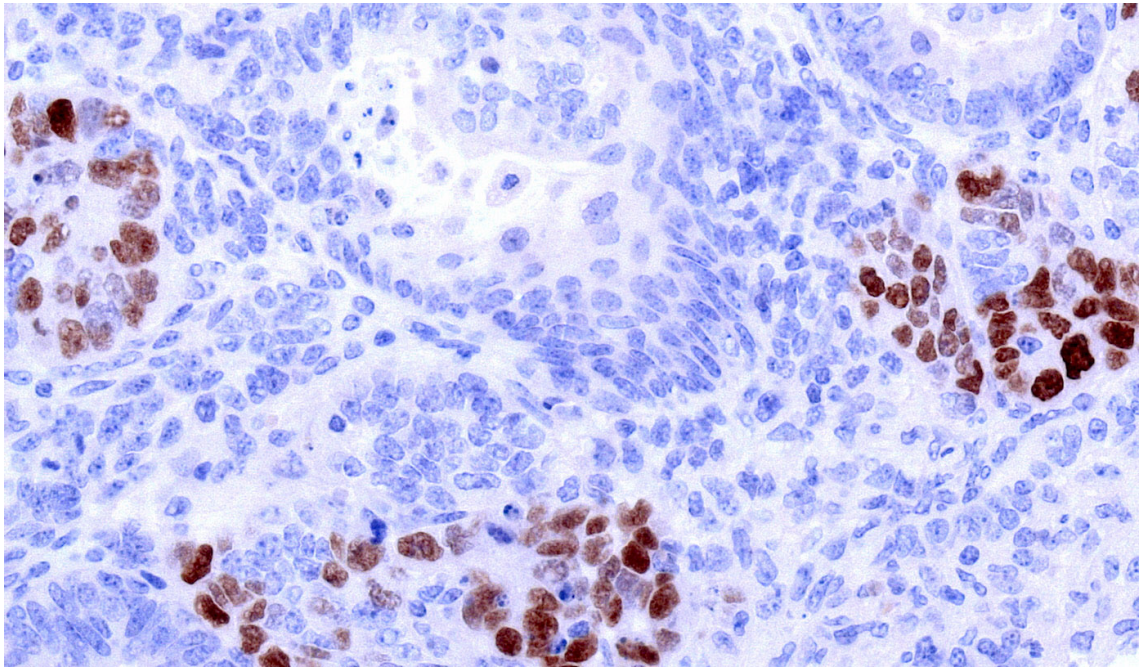
APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytospins									
Paraffin tissue									
Recommended	NF1A	neat	Supernatant	Discovery Xt CC1 OmniMap	Ventana	Teratoma	Lymph node	Nuclear	
Immunofluorescence									

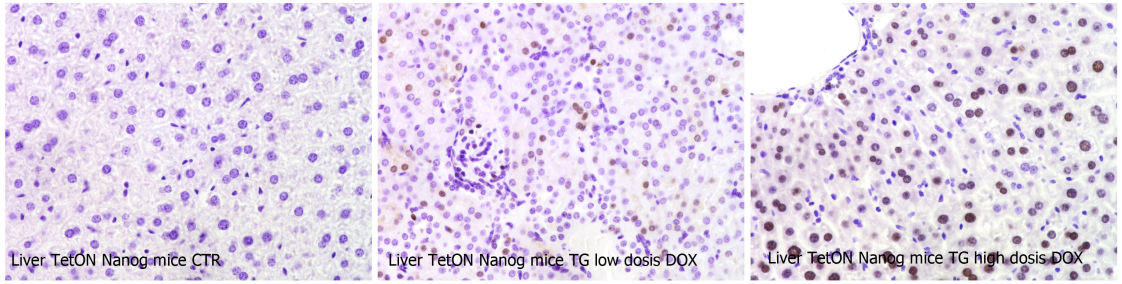


NF1A mAb in transfected cells

Nuclear staining on frozen cytospin preparations of transfected HEK293T/mNANOG cells using antibody NF1A. HEK293T/FGFR1 transfected cells were used as negative control. Anti-v5 was used as positive control.



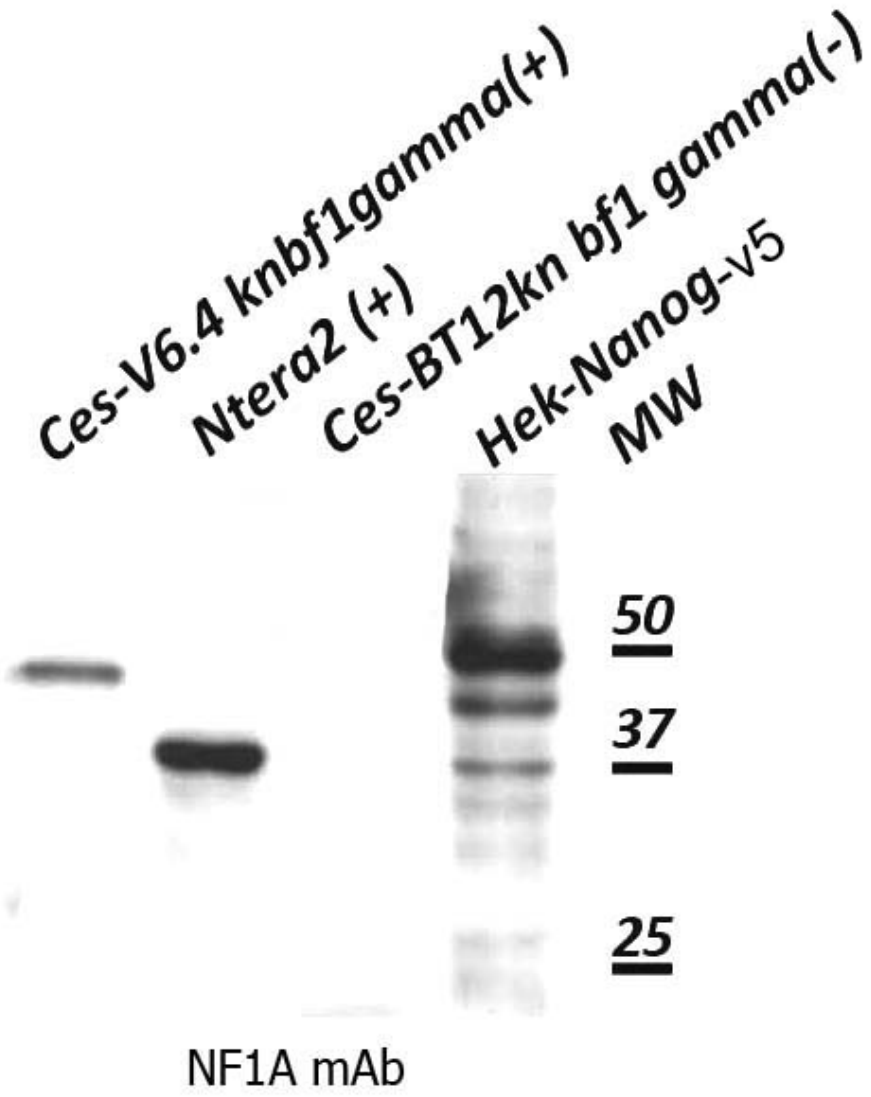
NANOG (NF1A) staining in mouse paraffin section.



Nanog (NF1A) expression on mouse paraffin sections.

Liver from Nanog transgenic mice in which the expression of Nanog is induced by tetracycline (teton sysyem). A without tetracycline , B with low dose of tetracycline and C high doses of tetracycline.

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
Western Blotting								
Recommended	NF1A	Undiluted	Supernatant	NTERA2 cell line		34kDa	34kDa	
Immunoprecipitation								



Western Blotting of mNANOG (NF1A) using different cell lines.

Lane 1 Ces-v6.4 knbf1gamma (15ug) (+)

Lane 2 Ntera2 cell line (150ug) (+)

Lane 3 Ces-BT12kn bf1 gamma (15ug) (-)

Lane 4 Hek-mNANOG-v5 (20ug) (+)