

CD8A

CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	rat anti human
CLONE NAME:	NOR132
PROTEIN:	Human full length CD8A protein
PROTEIN WEB:	http://www.ncbi.nlm.nih.gov/omim/186910
ANTIGEN USED:	Full length HIS-CD8
FUSION PARTNER:	myeloma p3-NS1/Ag4-1 (NS1) cells
ISOTYPE:	IgG2a
SPECIES REACTIVITY:	Human
PREPARATION AND STORAGE:	Aliquot and store at 4°C. Do not freeze
APP RECOMMENDED:	IHQ-frozen, IHQ-paraffin, IF, WB, IP
APP NO TESTED:	Flow cytometry

DESCRIPTION

CD8 (cluster of differentiation 8) is a transmembrane glycoprotein that serves as a co-receptor for the T cell receptor (TCR). Like the TCR, CD8 binds to a major histocompatibility complex (MHC) molecule, but is specific for the class I MHC protein. CD8 antigen is strongly expressed on human cytotoxic T cells and thymocytes, and is also expressed on a subset of NK cells.

APPLICATIONS

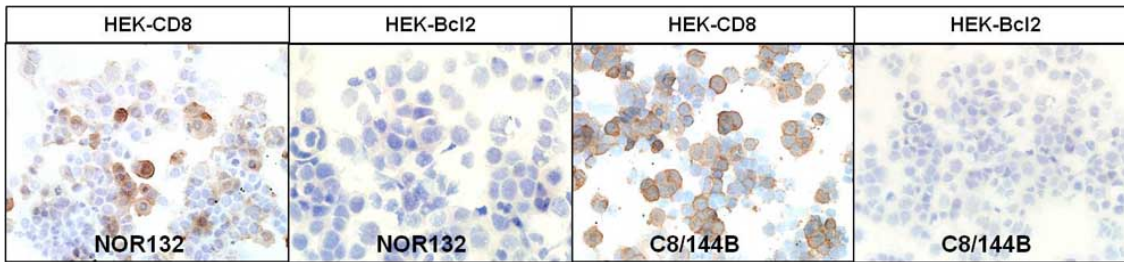
IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytopspins									
Recommended	NOR1 32	neat	supernatan	none	goar anti rat HRP DAKO1:100	tonsil		membrane	

Paraffin tissue

Recommended	NOR132	1:20	supernatan	30min ER1	Novolink kit	tonsil	pancreas	membrane	
-------------	--------	------	------------	-----------	--------------	--------	----------	----------	--

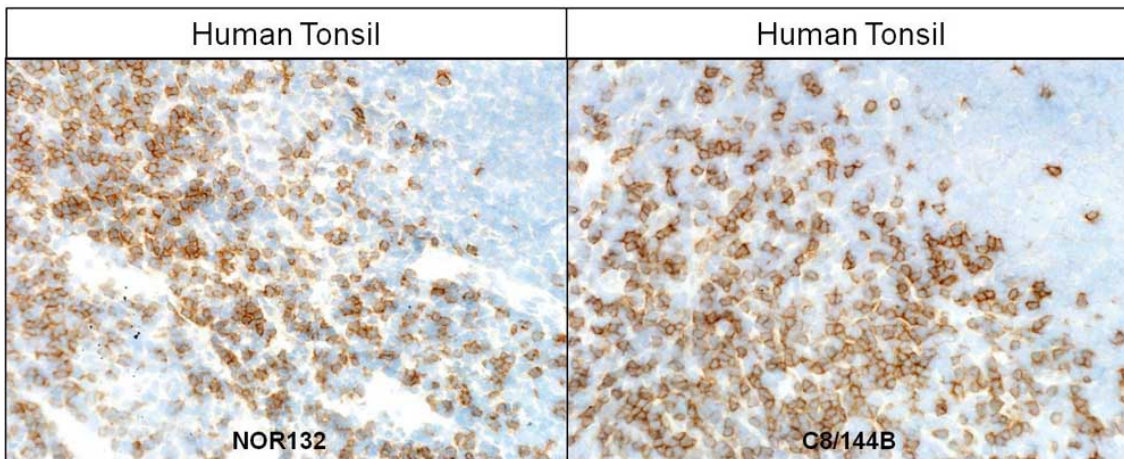
Immunofluorescence

Recommended	NOR132	neat	supernatan	Tris-EDTA	Goat anti mouse IgGra Alexa	tonsil		membrane	
-------------	--------	------	------------	-----------	-----------------------------	--------	--	----------	--

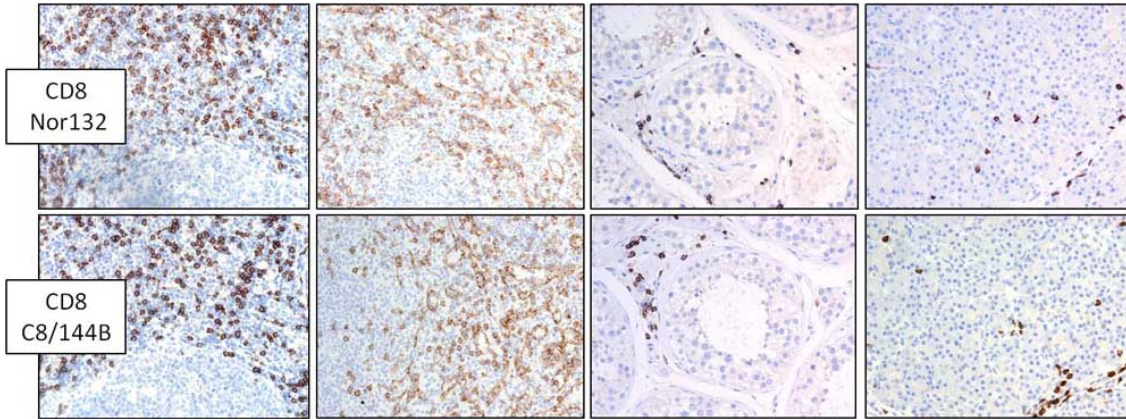


IHC of CD8 (NOR132H) and CD8 (C8/144B) in transfected cells.

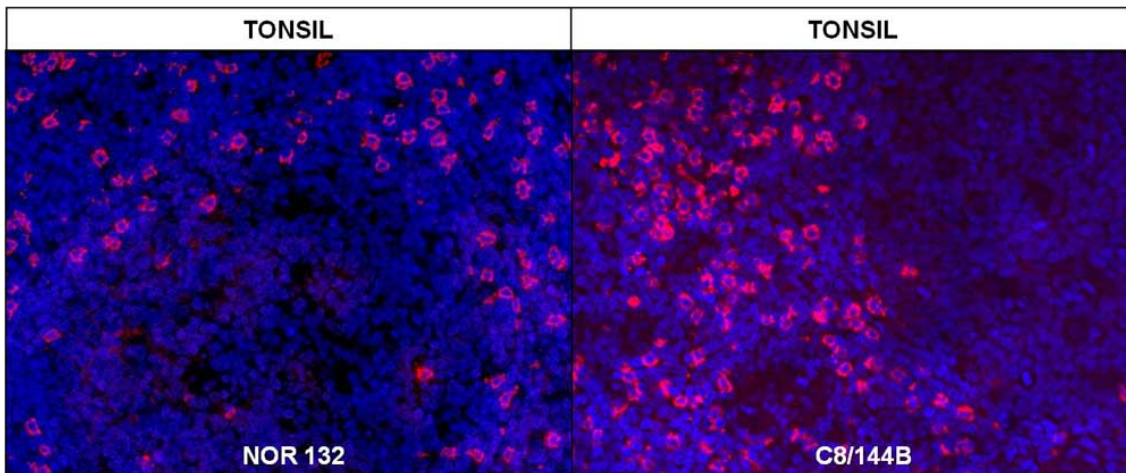
Antibody CD8 (NOR132H) was characterized by immunohistochemistry on transfected Hek-pcDNA3-V5-CD8 cells. This antibody specificity has been compared with anti-CD8 (clone C8/144B)



Expression of CD8 (NOR132) and CD8 (C8/144B) in frozen tonsil

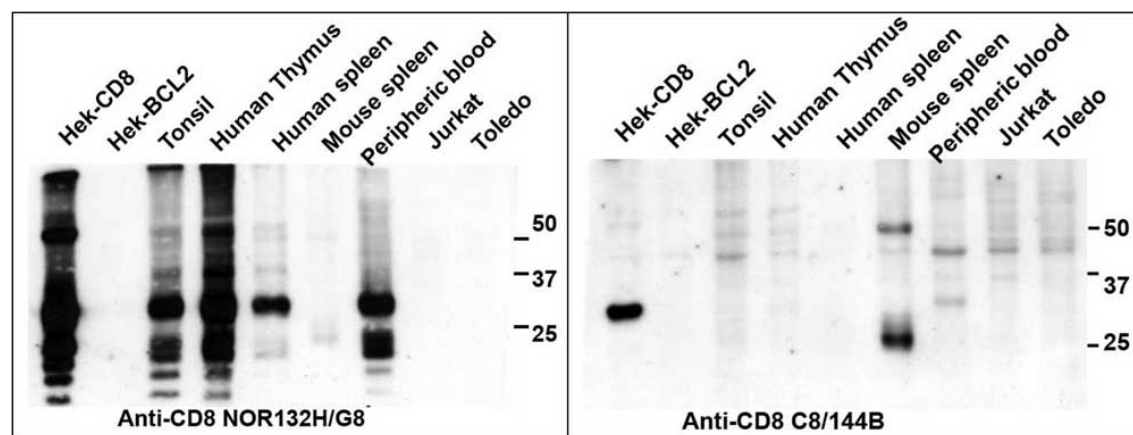


Expression of CD8 (NOR132) and CD8 (C8/144B) on paraffin tonsil, spleen, testicle and pancreas



Expression of CD8 (NOR132) and CD8 (C8/144B) in paraffin tonsil using immunofluorescence technique

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
Western Blotting								
Recommended	NOR132	NEAT	supernatan	Tonsil	Jurkat	30kDa	30kDa	Human
Inconclusive	C8/144B	NEAT	supernatan	Tonsil	Jurkat	30kDa	30kDa	Human
Immunoprecipitation								
Recommended	NOR132	NEAT	supernatan	Tonsil	Jurkat	30kDa	30kDa	Human
Inconclusive	C8/144B	NEAT	supernatan	Tonsil	Jurkat	30kDa	30kDa	Human



Expression of CD8 (NOR132) and CD8 (C8/144B) by WB

Lanes

Lane 1 Hek-CD8 (30?g) (+)

Lane 2 Hek-Bcl2 (30?g) (-)

Lane 3 Tonsil (100?g) (+)

Lane 4 Human Thymus (100?g) (+)

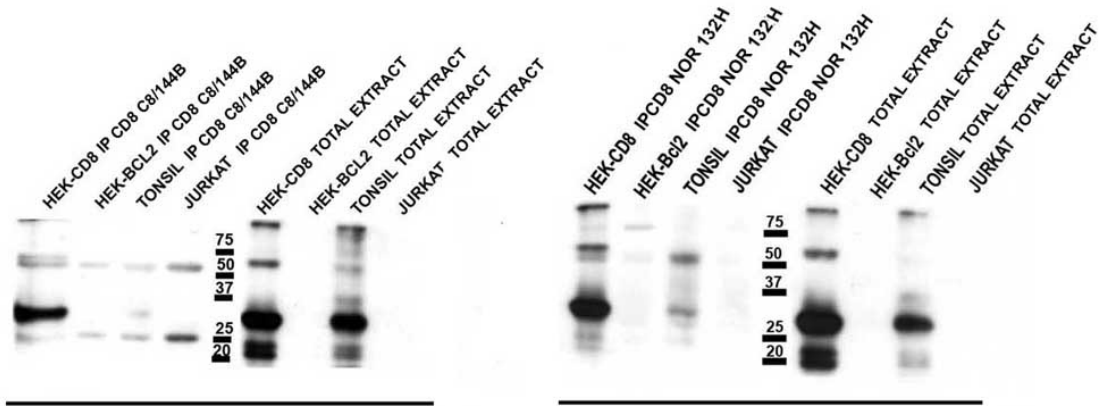
Lane 5 Human spleen (100?g) (+)

Lane 6 Mouse spleen (100?g) (-)

Lane 7 Peripheric blood (100?g) (+)

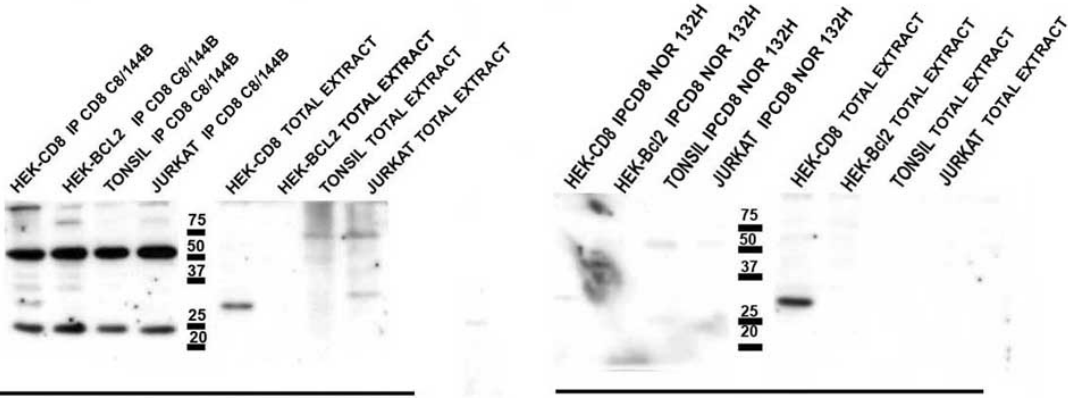
Lane 8 JURKAT (100?g) (-)

Lane 9 TOLEDO (100?g) (-)



CD8 NOR 132H

CD8 NOR 132H



CD8 C8/144B

CD8 C8/144B

IP of CD8 (NOR132) and CD8 (C8/144B) mAbs

A. Immunoprecipitation of protein extracts from HEK-CD8, HEK-Bcl2, Tonsil and Jurkat with commercial CD8 mAb (clone C8/144B) (used as neat supernatant) followed by western blotting with CD8 NOR132H.

B. Immunoprecipitation of protein extracts from HEK-CD8, HEK-Bcl2, Tonsil and Jurkat with CD8 NOR132H (used as neat supernatant) followed by western blotting with CD8 NOR132H

C. Immunoprecipitation of protein extracts from HEK-CD8, HEK-Bcl2, tonsil and Jurkat with commercial CD8 mAb (clone C8/144B) (used as neat supernatant) followed by western blotting with CD8 C8/144B.

D. Immunoprecipitation of protein extracts from HEK-CD8, HEK-Bcl2, Tonsil and Jurkat with CD8 NOR132H (used as neat supernatant) followed by western blotting with CD8 C8/144B.