Estrogen Receptor Alpha

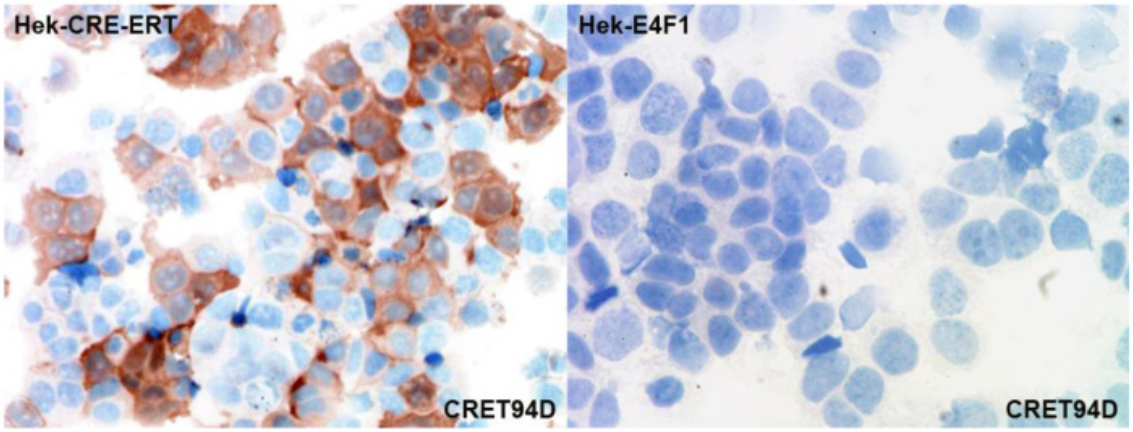
CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	mouse anti human
CLONE NAME:	CRET94D
PROTEIN:	Estrogen Receptor Alpha (ESR1)
PROTEIN WEB:	http://www.hprd.org/alternate?hprd_id=00589&isoform_id=00589_4&isoform_name=Isoform_1
ANTIGEN USED:	MBP-CRE-ERT recombinant protein
FUSION PARTNER:	myeloma p3-NS1/Ag4-1 (NS1) cell
ISOTYPE:	IgG1
SPECIES REACTIVITY:	Human and mouse
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze

DESCRIPTION

The oestrogen receptor alpha (ESR1) is a transcription factor that potentiates the response to diverse stimuli, including oestrogen and growth factors, in various tissue types. Its recruitment to the DNA is directly regulated by the chromatin landscape, inclusive of chromatin compaction and epigenetic modifications.

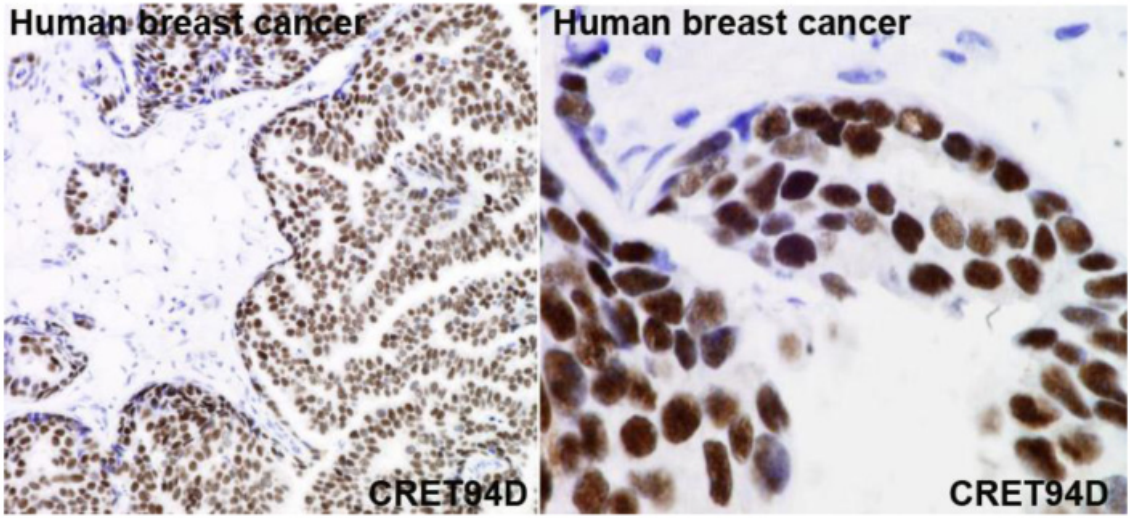
APPLICATIONS

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	CRET 94D	1:40	supernatant						
Immunofluorescence									



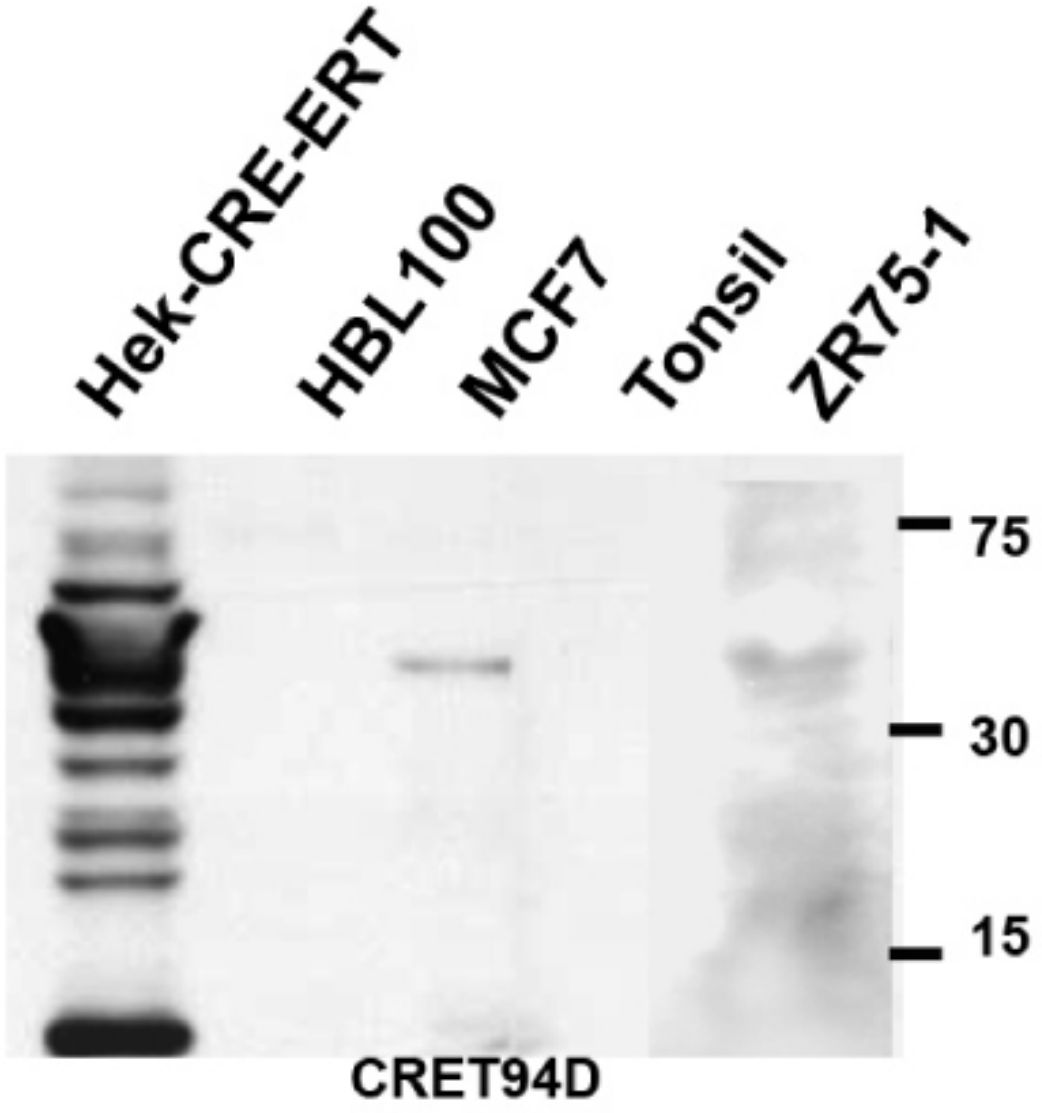
CRET94D in transfected cells

To confirm that CRET94D mAb recognized human Estrogen receptor protein, immunohistochemistry on frozen cytospins preparations of CRE-ERT expressed in Hek293T was performed. Cytospin preparation of E4F1 transfected cells was used as negative control.



CRET94D in human breast cancer

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
Western Blotting								
Recommended	CRET94 D	1:5	supernatant			66kDa		mouse
Immunoprecipitation								



CRET94D in Western blotting

Lane 1 Hek-CRE-ERT (20ug) (+)

Lane 2 HBL100 cell line (100ug) (-)

Lane 3 MCF7 cell line (100ug) (+)

Lane 4 Human tonsil (100ug) (-)

Lane 5 ZR75-1 cell line (human breast carcinoma) (100ug)(+)