

**Nur77 (D63C5) XP<sup>®</sup> Rabbit mAb**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IF-IC, FC-FP	H	Endogenous	70-80	Rabbit IgG	#P22736	3164

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Immunocytochemistry)  
Flow Cytometry (Fixed/Permeabilized)

**Dilution**

1:1000  
1:100  
1:100 - 1:200  
1:400

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

Nur77 (D63C5) XP<sup>®</sup> Rabbit mAb detects endogenous levels of total human Nur77 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu535 of human Nur77.

**Background**

Nur77, also known as TR3 and NGFI-B, is an immediate-early response gene and an orphan member of the steroid/thyroid/retinoid receptor superfamily (1-3). Nur77 is composed of an amino-terminal transactivation domain, a central DNA-binding domain and a carboxy-terminal ligand-binding domain. Expression of Nur77 is rapidly induced by a variety of stimuli, including apoptotic, mitogenic and stress signals (1-6). It has been proposed to have many functions related to cell proliferation, differentiation and apoptosis. Nur77 has been extensively studied in T cells where it has been implicated in the process of negative selection and TCR-mediated apoptosis (5,6). Nur77 binds to specific DNA elements leading to the regulation of target genes (7). As a possible mechanism for regulating apoptosis, Nur77 can induce the expression of apoptotic genes such as FasL and TRAIL (8,9). Nur77 is heavily phosphorylated by multiple kinases, which may affect its transactivation activity as well as its subcellular localization (4,10,11). Translocation of Nur77 from the nucleus to the mitochondria can regulate its association with Bcl-2 and control the release of cytochrome c, thereby triggering apoptosis (12,13).

**Background References**

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- Li, H. et al. (2000) *Science* 289, 1159-1164.
- Lin, B. et al. (2004) *Cell* 116, 527-540.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key**

**H:** Human

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