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NGF Antibody



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Applications: WB	Reactivity: H	Sensitivity: Recombinant protein	MW (kDa): 13	Source: Rabbit	UniProt ID: #P01138	Entrez-Gene Id 4803	
Product Usage	Ар	plication			Dilution		
Information	We	stern Blotting			1:1000		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sens	sitivity NGF	NGF Antibody detects recombinant NGF protein. It does not cross-react with other protein					
Species predicte react based on 1 sequence homol	00%	ise					
Source / Purifica	tion Poly	rclonal antibodies ar	e produced by imm	unizing animals wit	h a synthetic peptide co	responding to	

residues surrounding Thr146 of human NGF.

Nerve growth factor (NGF) is a small, secreted protein and member of the neurotrophin family of growth factors that promote neuronal cell survival and differentiation (1). Producing cells release NGF that bind and activate TrkA high affinity receptors to mediate NGF-driven signaling. NGF also binds to low affinity p75 (NTR) receptors, which belong to the death receptor family (2). Although NGF has been classically

described as favoring neuron survival and differentiation, NGF can promote apoptosis in cells that contain p75 (NTR) and lack TrkA. NGF can induce neuron death in a variety of neurodegenerative conditions, including Alzheimer's disease (3). Besides its neurotrophic actions, NGF has an effect on non-neuronal cells and may help mediate inflammation, angiogenesis, and stimulate breast cancer cell growth (4-6).

NGF signaling is looking increasingly promising as potential drug targets for diseases.

Background References 1. Lessmann, V. et al. (2003) Prog Neurobiol 69, 341-74.

2. Neet, K.E. and Campenot, R.B. (2001) Cell Mol Life Sci 58, 1021-35.

3. Lorigados-Pedre, L. and Bergado-Rosado, J. (2004) Rev Neurol 38, 957-71.

4. Frossard, N. et al. (2004) Eur J Pharmacol 500, 453-65.

5. Nico, B. et al. (2008) Microvasc Res 75, 135-41.

6. Descamps, S. et al. (2001) J Biol Chem 276, 17864-70.

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

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer**

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Background

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Limited Uses

NGF Antibody (#2046) Datasheet Without Images Cell Signaling Technology

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