Synaptic Systems

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NGF receptor p75

Cat.No. 396 005; Polyclonal Guinea pig antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Guinea pig serum albumin was added for stabilization. For reconstitution add 50 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	**WB**: not tested yet **IP**: not tested yet **ICC**: 1 : 500 **IHC**: 1 : 1:100 up to 1 : 1:500 **IHC-P/FFPE**: 1 : 1:400 up to 1 : 1:1000
Immunogen	Recombinant protein corresponding to AA 266 to 417 from mouse NGF receptor (UniProt Id: Q9Z0W1)
Reactivity	Reacts with: mouse (Q9Z0W1), rat (P07174). Other species not tested yet.
Specificity	Specific for NGF receptor p75.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

NGF (**N**erve **G**rowth **F**actor) **receptor p75**, also termed p75NTR, NGFR and CD271, is a low affinity neurotrophin receptor and a single-pass type I transmembrane protein. Its ligands include NGF, brain-derived neurotrophic factor (BDNF), neurotrophin-3 (NT-3) and NT-4.
NGF receptor p75 is expressed by many cell types including neurons, Schwann cells, mesenchymal stem/stromal cells, follicular dendritic cells, and various neural crest cells and their tumors.
By mediating neurotrophin signals, the receptor appears to play a role in multiple processes, including neuronal growth, migration, differentiation and cell death during development of the central and peripheral nervous system.
NGF receptor p75 binds its ligands as a homodimer but can also form heterodimers with other receptors such as TrkA, TrkB, TrkC, Nogo receptor and sortilin. The precise multimeric receptor complex formed will determine the ligand being recognized and the biological response to its binding.

Selected General References

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