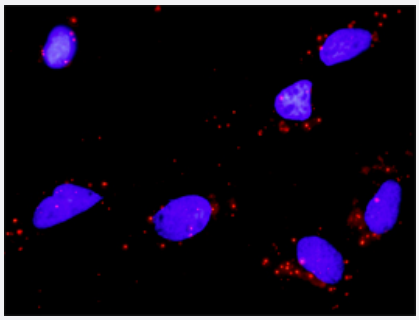
BDNF & NTF4 Protein Protein Interaction Antibody Pair

Catalog # DI0499 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between BDNF and NTF4. HeLa cells were stained with anti-BDNF rabbit purified polyclonal antibody 1:1200 and anti-NTF4 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description	This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the BDNF protein, and the other against the NTF4 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.
Reactivity	Human
Quality Control Testing	Protein protein interaction immunofluorescence result. Representative image of Proximity Ligation Assay of protein-protein interactions between BDNF and NTF4. HeLa cells were stained with anti-BDNF rabbit purified polyclonal antibody 1:1200 and anti-NTF4 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.
Supplied Products	Antibody pair set content: 1. BDNF rabbit purified polyclonal antibody (100 ug) 2. NTF4 mouse monoclonal antibody (40 ug) *Reagents are sufficient for at least 30-50 assays using recommended protocols.
Storage Instruction	Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

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- *In situ* Proximity Ligation Assay (Cell)

Gene Info — BDNF

Entrez GeneID	627
Gene Name	BDNF
Gene Alias	MGC34632
Gene Description	brain-derived neurotrophic factor
Omim ID	113505 164230 209880 606788 607499
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the nerve growth factor family. It is induced by cortical neurons, and is necessary for survival of striatal neurons in the brain. Expression of this gene is reduced in both Alzheimer's and Huntington disease patients. This gene may play a role in the regulation of stress response and in the biology of mood disorders. Multiple transcript variants encoding distinct isoforms have been described for this gene. [provided by RefSeq
Other Designations	neurotrophin

Gene Info — NTF4

Entrez GeneID	4909
Gene Name	NTF4
Gene Alias	NT-4/5, NT4, NT5, NTF5
Gene Description	neurotrophin 4
Omim ID	162662
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of a family of neurotrophic factors, neurotrophins, that control survival and differentiation of mammalian neurons. The expression of this gene is ubiquitous and less influenced by environmental signals. While knock-outs of other neurotrophins including nerve growth factor, brain-derived neurotrophic factor, and neurotrophin 3 prove lethal during early postnatal development, NTF5-deficient mice only show minor cellular deficits and develop normally to adulthood. [provided by RefSeq
Other Designations	neurotrophic factor 4|neurotrophic factor 5|neurotrophin 5|neurotrophin 5 (neurotrophin 4/5)

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Pathway

- MAPK signaling pathway
- MAPK signaling pathway
- Neurotrophin signaling pathway
- Neurotrophin signaling pathway

Disease

- Agoraphobia
- Akathisia
- Alcoholism
- Alzheimer disease
- Amnesia
- Amphetamine-Related Disorders
- Angina
- Anorexia
- Anorexia Nervosa
- Anoxia
- Anxiety Disorders
- Arousal
- Asperger Syndrome
- Asperger Syndrome
- Asthma
- Atherosclerosis
- Atrophy
- Attention

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- Attention Deficit Disorder with Hyperactivity
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Autistic Disorder
- Avoidance Learning
- Basal Ganglia Diseases
- Bipolar Disorder
- Birth Weight
- Body Weight
- Borderline Personality Disorder
- Brain Injuries
- Brain Ischemia
- Bulimia
- Bulimia Nervosa
- Cardiovascular Diseases
- Cerebral Infarction
- Cerebrovascular Accident
- Chromosome Aberrations
- Chronic Disease
- Cognition
- Cognition Disorders
- Conditioning
- Conditioning (Psychology)
- Coronary Artery Disease
- Cues
- Decision Making

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- Depression
- Depressive Disorder
- Dermatitis
- Diabetes Complications
- Diabetes Mellitus
- Discrimination (Psychology)
- Disease Models
- Disease Models
- Disease Progression
- Disease Susceptibility
- Dominance
- Dyskinesia
- Dysthymic Disorder
- Dystonic Disorders
- Eating Disorders
- Eating Disorders
- Edema
- Electroconvulsive Therapy
- Epilepsies
- Epilepsy

- Executive Function
- Extinction
- Failure to Thrive
- Fragile X syndrome
- Functional Laterality
- Galvanic Skin Response

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- Gambling
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Genetics
- Glaucoma
- Granuloma
- Hallucinations
- Headache
- Heroin Dependence
- Huntington disease
- Hypercholesterolemia
- Hyperphagia
- Hypertension
- Inhibition (Psychology)
- Intelligence Tests
- Intervertebral Disk Displacement
- Learning
- Leukoencephalopathies
- Lewy Body Disease
- Lupus Erythematosus
- Lupus Vasculitis
- Memory
- Memory Disorders
- Mental Disorders
- Mental Disorders
- Mental Processes

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- Mental Recall
- Mental Retardation
- Mental Status Schedule
- Mercury Poisoning
- Metabolic Syndrome X
- Migraine Disorders
- Mitral Valve Prolapse
- MMPI
- Mood Disorders
- Motor Skills
- Multiple Sclerosis
- Multiple System Atrophy
- Myopia
- NARP
- Neoplasms
- Neuropsychological Tests
- Neurotic Disorders
- Obesity
- Obsessive-Compulsive Disorder
- Obstetric Labor Complications
- Opioid-Related Disorders
- Orientation
- Osteoporosis
- Ovarian Failure
- Overweight
- Pain

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- Panic Disorder
- Paranoid Disorders
- Parkinson disease
- Parkinsonian Disorders
- Pattern Recognition
- Perception
- Personality Assessment
- Personality Disorders
- Personality Inventory
- Personality Tests
- Pick Disease of the Brain
- Polycystic Ovary Syndrome
- Polyradiculoneuropathy
- Postmortem Changes
- Prenatal Exposure Delayed Effects
- Problem Solving
- Psychiatric Status Rating Scales
- Psychoacoustics
- Psychological Tests
- Psychometrics
- Psychomotor Performance
- Psychoses
- Psychotic Disorders
- Puberty
- Reaction Time
- Recognition (Psychology)

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- Recurrence
- Rett syndrome
- Reward
- Schizophrenia
- Schizophrenic Psychology
- Schizotypal Personality Disorder
- Sciatica
- Seizures
- Serial Learning
- Sleep Apnea
- Sleep Disorders
- Social Perception
- Social Perception
- Startle Reaction
- Stress
- Stress Disorders
- Stroke
- Subarachnoid Hemorrhage
- Substance-Related Disorders
- Syndrome
- Thinking
- Thrombophilia
- Tic Disorders
- Tobacco Use Disorder
- Torticollis
- Tourette Syndrome

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- Verbal Learning
- Wechsler Scales
- Weight Gain
- Weight Loss
- Werner syndrome

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