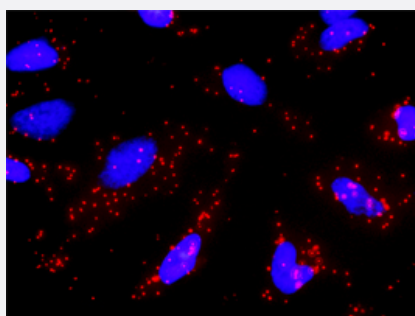


CAPN1 & GRIN2B Protein Protein Interaction Antibody Pair

Catalog # DI0232

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CAPN1 and GRIN2B. HeLa cells were stained with anti-CAPN1 rabbit purified polyclonal antibody 1:1200 and anti-GRIN2B 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 CAPN1 protein, and the other against the GRIN2B 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 CAPN1 and GRIN2B. HeLa cells were stained with anti-CAPN1 rabbit purified polyclonal antibody 1:1200 and anti-GRIN2B 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 Product

Antibody pair set content:
1. CAPN1 rabbit purified polyclonal antibody (100 ug)
2. GRIN2B 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

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — CAPN1

Entrez GeneID	823
Gene Name	CAPN1
Gene Alias	CANP, CANP1, CANPL1, muCANP, muCL
Gene Description	calpain 1, (mu/l) large subunit
Omim ID	114220
Gene Ontology	Hyperlink
Gene Summary	The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 1. [provided by RefSeq]
Other Designations	calcium-activated neutral proteinase calpain 1, large subunit calpain, large polypeptide L1 cell proliferation-inducing protein 30

Gene Info — GRIN2B

Entrez GeneID	2904
Gene Name	GRIN2B
Gene Alias	MGC142178, MGC142180, NMDAR2B, NR2B, hNR3
Gene Description	glutamate receptor, ionotropic, N-methyl D-aspartate 2B
Omim ID	138252
Gene Ontology	Hyperlink

Gene Summary

N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate receptors. NMDA receptor channel has been shown to be involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. NMDA receptor channels are heteromers composed of three different subunits: NR1 (GRIN1), NR2 (GRIN2A, GRIN2B, GRIN2C, or GRIN2D) and NR3 (GRIN3A or GRIN3B). The NR2 subunit acts as the agonist binding site for glutamate. This receptor is the predominant excitatory neurotransmitter receptor in the mammalian brain. [provided by RefSeq]

Other Designations

N-methyl-D-aspartate receptor subunit 2B|glutamate receptor subunit epsilon-2

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Apoptosis](#)
- [Long-term potentiation](#)
- [Neuroactive ligand-receptor interaction](#)
- [Systemic lupus erythematosus](#)

Disease

- [Alcohol Withdrawal Delirium](#)
- [Alcoholism](#)
- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Attention](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Bipolar Disorder](#)
- [Bulimia](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Cues](#)
- [Disease Models](#)

- [Dyslexia](#)
- [Epilepsy](#)
- [Executive Function](#)
- [Genetic Predisposition to Disease](#)
- [Huntington disease](#)
- [Impulse Control Disorders](#)
- [Inhibition \(Psychology\)](#)
- [Memory](#)
- [Mental Disorders](#)
- [Nerve Degeneration](#)
- [Neuropsychological Tests](#)
- [Obsessive-Compulsive Disorder](#)
- [Parkinson disease](#)
- [Pheochromocytoma](#)
- [Postmortem Changes](#)
- [Psychiatric Status Rating Scales](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Seizures](#)
- [Substance Withdrawal Syndrome](#)
- [Tobacco Use Disorder](#)
- [Verbal Learning](#)
- [Weight Gain](#)