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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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Anti-Tau 2N Antibody

Rabbit Anti-Human Tau Polyclonal
Catalog No. SPC-813



Discovery through Partnership | Excellence through Quality

Product Name

Tau 2N Antibody

Description

Rabbit Anti-Human Tau Polyclonal

Species Reactivity

Human

Applications

WB

Antibody Dilution

WB (1:1000); optimal dilutions for assays should be determined by the user.

Host Species

Rabbit

Immunogen Species

Human

Immunogen

Tau 2N3R/4R peptide

Concentration

1mg/mL

Conjugates

APC, ATTO 390, ATTO 488, ATTO 594, Biotin, FITC, HRP, PerCP, RPE, Unconjugated

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Buffer

PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide

Storage Temperature

-20°C, Conjugated antibodies should be stored according to the product label

Shipping Temperature

Blue Ice or 4°C

Purification

Affinity Purified

Clonality

Polyclonal

Specificity

Detects Tau 2N3R/4R spliceforms

Cite This Product

Rabbit Anti-Human Tau 2N Polyclonal (StressMarq Biosciences, Victoria BC, Cat# SPC-813)

Certificate Of Analysis

A 1:1000 dilution of SPC-813 was sufficient for detection of Tau 2N3R/4R spliceforms (range tested 2ug - 0.063ug).

Biological Description

Alternative Names

Tau, 2N4R Tau, 2N3R Tau, pTau, MAPT, Neurofibrillary tangle protein, Tau-Human

Research Areas

ALS Disease, Alzheimer's Disease, Neurodegeneration, Neuroscience, Parkinson's Disease

Cellular Localization

Plasma Membrane

Swiss Prot

P10636-5

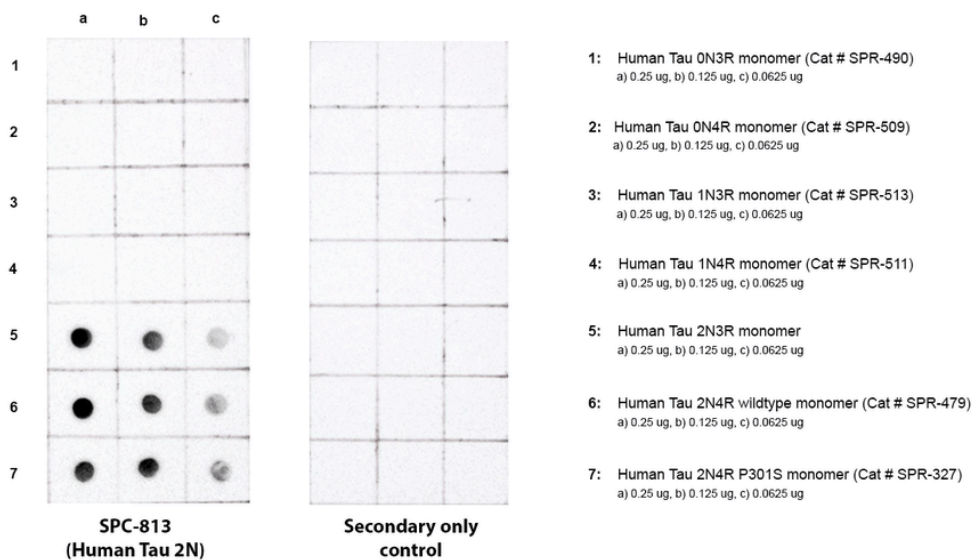
Scientific Background

Tau is a microtubule-associated protein (MAPT) with multiple isoforms due to alternative mRNA splicing (1,2). The 2N isoform contains two N-terminal inserts and is expressed in both 3R (2N3R) and 4R (2N4R) variants (2). The 3R/4R ratio varies across diseases; for example, Alzheimer's disease features a mixed 3R/4R pathology (3). Our human Tau 2N3R/4R polyclonal antibody has been demonstrated to be specific to only human 2N isoforms and does not detect rodent isoforms.

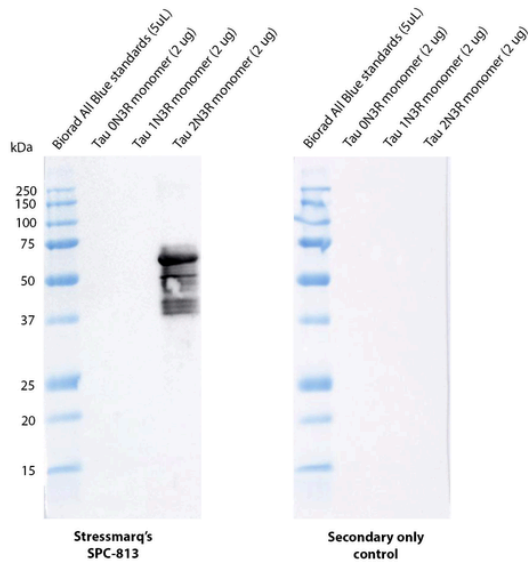
References

- 1.,Goedert, M., Spillantini, M. G., Jakes, R., Rutherford, D., & Crowther, R. A. (1989). Multiple isoforms of human microtubule-associated protein tau: sequences and localization in neurofibrillary tangles of Alzheimer's disease. *Neuron*, 3(4), 519-526. DOI: 10.1016/0896-6273(89)90210-9
- 2.,Spillantini, M. G., & Goedert, M. (2013). Tau pathology and neurodegeneration. *The Lancet Neurology*, 12(6), 609-622. DOI: 10.1016/S1474-4422(13)70090-5
- 3.,Kovacs, G. G. (2017). Tauopathies. *Handbook of Clinical Neurology*, 145, 355-368. DOI: 10.1016/B978-0-12-802395-2.00025-3

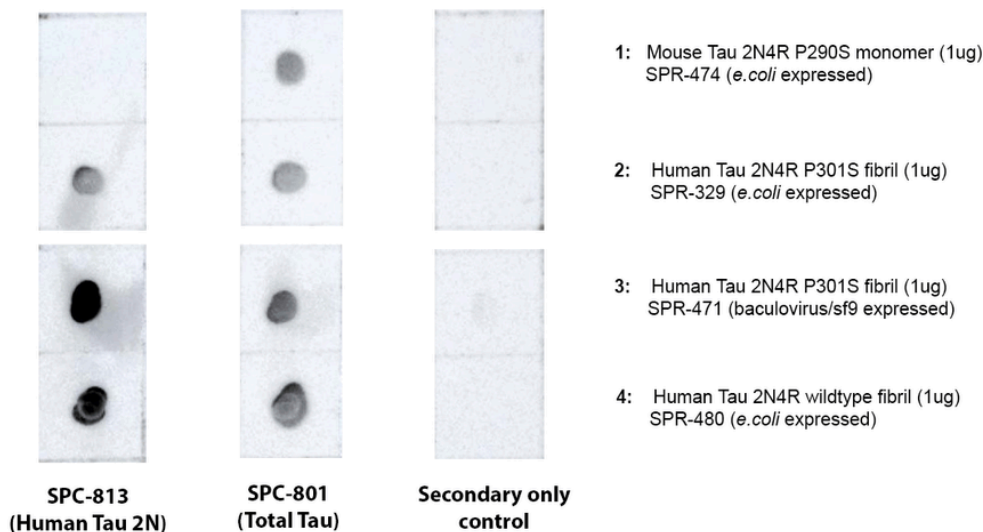
Product Images



Dot blot analysis comparing detection of Tau isoforms. Of note is that SPC-813 does not bind to 0N or 1N isoforms. Block: 5% skim milk. Primary Antibody: Anti-human Tau 2N3R/4R polyclonal antibody (SPC-813) incubated for 1/2 hour at RT. Secondary Antibody: Goat anti-rabbit IgG:HRP at 1:4000 for 1/2 hour at RT. Color Development: Chemiluminescent for HRP (Moss) for 1 min in RT. Exposed 1 second.



Western blot analysis comparing detection of Tau isoforms, human Tau 0N3R monomer (SPR-490), human Tau 1N3R monomer (SPR-513), and human Tau 2N3R monomer. Of note is that SPC-813 does not bind to the 0N or 1N isoforms. Block: 5% skim milk. Primary Antibody: Anti-human Tau 2N3R/4R polyclonal antibody (SPC-813) incubated for 1/2 hour at RT. Secondary Antibody: Goat anti-rabbit IgG:HRP at 1:4000 for 1/2 hour at RT. Color Development: Chemiluminescent for HRP (Moss) for 1 min in RT. Exposed 1 second.



Dot blot analysis comparing detection of mouse Tau 2N4R monomer and human Tau 2N4R pre-formed fibrils. Of note is that SPC-813 does not bind to the mouse construct. Block: 5% skim milk. Primary Antibody: Anti-human Tau 2N3R/4R polyclonal antibody (SPC-813) incubated for 1/2 hour at RT. Secondary Antibody: Goat anti-rabbit IgG:HRP at 1:4000 for 1/2 hour at RT. Color Development: Chemiluminescent for HRP (Moss) for 1 min in RT. Exposed 1 second.

Product Citations

Reviews

There are no reviews yet.