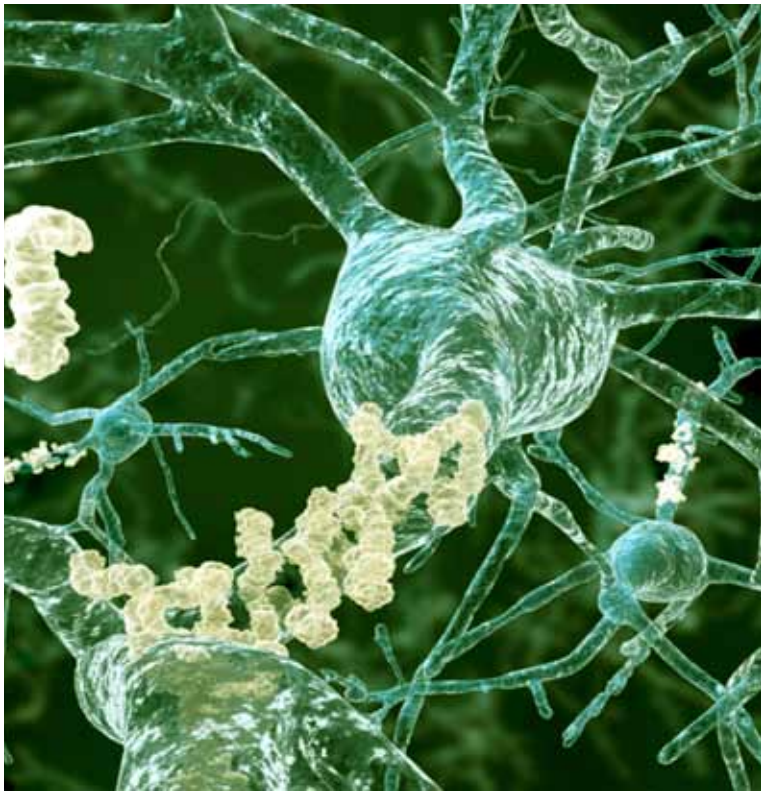
Neurodegeneration - Monoclonal Antibodies and ELISA Kits

For Biomarkers of Human Neurodegenerative Diseases



- Highly specific Antibodies and ELISA Kits
- Detection of neuropathologicical lesions in Alzheimer's, Parkinson's and CJB, BSE & Scrapie
- Staining of FFPE tissue, Immunoblotting & ELISA

Dementia is a growing problem in today's increasingly ageing society. The major cause are neurodegenerative diseases such as Alzheimer's, Parkinson's or Creutzfeld Jakob. A common feature is the abnormal accumulation of protein in- or outside neurons leading to their progressive loss due to apoptosis, misfolding, abnormal interaction, or general dysfunction.

Alzheimer's Disease

Due to the demographic development, approximately 25% of all 80 - to 90-year old will develop Alzheimer's disease (AD) over the next years. Amyloid beta peptide (Abeta) and Tau are the most important molecules involved in the neuropathology of AD. Abeta accumulates in the neural endoplasmatic reticulum and extracellularly as plaques (title picture) whereas Tau, which normally stabilizes microtubules in growing axons, is aberrantly phosphorylated and in this form the major component of abnormal intracellular neurofibrillary tangles.

Cat. No.	Product	Applications	Size
NDG-76470	Anti-Human Tau, mAb 4B5	WB, IHC, PS	100 µg
NDG-76472	Anti-Human Tau, mAb 8F10, aa 428-437 (LADEVSASLA)	WB, IHC, PS	100 µg
NDG-76474	Anti-Human Tau, mAb 12C2	WB, IHC, PS	100 µg
NDG-76476	Anti-Human Tau, mAb 18B5	WB, IHC, PS	100 µg
NDG-76478	Anti-Human Tau, mAb 7E5, aa 156-165 (RGAAPPGQKGQA)	ELISA, WB, IHC, PS	100 µg
NDG-76480	Anti-Human Phospho-Tau (pSer199), mAb 1F3	WB	100 µg
NDG-76482	Anti-Human Phospho-Tau (pSer199/202), mAb 9C8	WB, IHC, PS	100 µg
NDG-76484	Anti-Human Phospho-Tau (pSer202), mAb 10F8	ELISA, WB, IHC, PS	100 µg
NDG-76486	Anti-Human Phospho-Tau (pThr181), mAb 1E7	ELISA, WB, IHC, PS	100 µg
NDG-76488	Anti-Human Phospho-Tau (pThr181), mAb 8B11	ELISA, WB, IHC, PS	100 µg
NDG-76490	Anti-Human Phospho-Tau (pThr181), mAb 10D3	ELISA, WB, IHC, PS	100 µg
NDG-76492	Anti-Human Phospho-Tau (pThr181), mAb 8D2	ELISA, WB, IHC, PS	100 µg
NDG-76494	Anti-Human Phospho-Tau (pThr231), mAb 4C10	ELISA, WB, IHC, PS	100 µg
NDG-76496	Anti-Human Phospho-Tau (pThr231), mAb 2B11	ELISA, WB, IHC, PS	100 µg
NDG-76498	Anti-Human Phospho-Tau (pThr231), mAb 5G7	ELISA, WB, IHC, PS	100 µg
NDG-76500	Anti-Human Phospho-Tau (pThr231), mAb 9D8	ELISA, WB, IHC, PS	100 µg
NDG-76502	Anti-Human Phospho-Tau (pThr231/pSer235), mAb 3G3	ELISA, WB	100 µg
NDG-76542	Human pSer199-Tau ELISA Kit	ELISA Kit	96 Test
NDG-76543	Human pSer202-Tau ELISA Kit	ELISA Kit	96 Test
NDG-76544	Human pThr231-Tau ELISA Kit	ELISA Kit	96 Test
NDG-76545	Human Total Tau ELISA Kit	ELISA Kit	96 Test
NDG-76546	Human Aggregated Tau ELISA Kit	ELISA Kit	96 Test

*Products for research use only.

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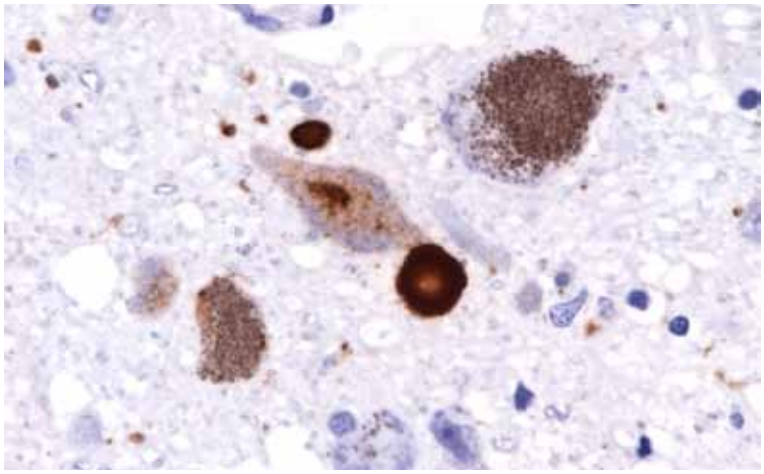

Parkinson's Disease

Alpha-Synuclein is a small (14 kDa) cytoplasmic neuronal protein predominantly found in the presynaptic termini of the brain. It may have a role in regulating membrane stability and neuronal plasticity and it may function as a molecular chaperone in the formation of insoluble aggregates of Abeta in AD. In patients with Parkinson's disease and Lewy body dementia soluble monomers of Alpha-Synuclein are converted into insoluble aggregates forming the Lewy bodies (Figure) and Lewy neurites which are the defining neuropathological features in the brain of these patients.

The implication of α-Synuclein in the pathogenesis of Alzheimer's disease or its prion-like characteristics similar to prion protein (PrPC) are subject of extensive research.

Cat. No.	Product	Applications	Size
NDG-76504	Anti-Human α-Synuclein, mAb 10C3	ELISA, WB, IHC, PS	100 µg
NDG-76506	Anti-Human α-Synuclein, Oligomer-specific, mAb 5G4 (aa EGVVHGVA, β-Sheet)	ELISA, IHC, PS	100 µg
NDG-76508	Anti-Human α-Synuclein, mAb 10D2, aa 119-126 (DPDNEAYE)	ELISA, WB, IHC, PS	100 µg
NDG-76539	Human Oligomer α-Synuclein ELISA Kit Pathological forms, Aggregates/Oligomers	ELISA Kit	96 Test
NDG-76540	Human Total α-Synuclein ELISA All molecular forms (mono-/di-/tri-/multimeric)	ELISA Kit	96 Test
NDG-76541	Human Dimer+ α-Synuclein ELISA Higher molecular forms (only di-/tri-/multimeric)	ELISA Kit	96 Test

Creutzfeldt Jakob, BSE, Scrapie

In healthy brain, cellular prion protein (PrPC) is a GPI-anchored protein constitutively expressed on the neuronal cell surface. It may play a role in iron homeostasis and may be an Abeta receptor involved in the formation of Abeta aggregates in AD. After a prion infection, the mainly α-helical rich PrPC, which is protease-sensitive (PrPSen), is converted into a ß-sheet rich insoluble and protease-resistant isoform, PrP-Scrapie (PrPSc or PrPRes). Deposites of PrPSc are found in prion diseases or transmissible spongiform encephalopathies in humans (Creutzfeldt Jakob Disease a.o.) and animals (Bovine spongiform encephalopathy (BSE), Scrapie (Sheep, Goat), Chronic Wasting Disease (Deer, Elk). The mechanism of toxicity is not clear.

Cat. No.	Product	Applications	Size
NDG-76439	Anti-Prion Protein, PrPSc (Bo, Hu), mAb 4F7, aa YY…MHRY…YY	ELISA, WB, IHC, PS	100 µg
NDG-76441	Anti-Prion Protein, PrPSc (Bo, Hu), mAb 1E5, aa YEDR	ELISA, WB	100 µg
NDG-76443	Anti-Prion Protein, PrPSc (Bo, Sh, Hu), mAb 3E7, aa IHFGSD	ELISA, WB, IHC, PS	100 µg
NDG-76445	Anti-Prion Protein, PrPSc (Bo, Sh), mAb 3B8, conform. epitope, aa GSDYEDRY +YRPVDQ	ELISA, WB	100 µg
NDG-76447	Anti-Prion Protein, PrPSc (Bo, Hu, Sh, Deer), mAb 7B6, conformational epitope	ELISA, WB, IHC, PS	100 µg
NDG-76449	Anti-Prion Protein (Bo, Hu, Sh, Deer), mAb 5C4, aa PPQGGGGWGQPH (Octarepeats)	ELISA, WB	100 µg
NDG-76451	Anti-Prion Protein (Bo, Hu), mAb 1E2, aa GSDYEDRYYR	ELISA, WB	100 µg
NDG-76453	Anti-Prion Protein (Bo, Hu), mAb 15B6, conformational epitope	WB	100 µg
NDG-76455	Anti-Prion Protein (Bo, Hu, Sh, Deer), mAb 6G3, HFGSDYEDRY	ELISA, WB	100 µg
NDG-76457	Anti-Prion Protein (Bo, Hu), mAb 5B9, aa MHRYPNQVYY	ELISA, WB	100 µg
NDG-76459	Anti-Prion Protein, PrPSc (Bo, Sh, Hu), mAb 14D11, aa GSDYEDRYYREN … MHRYPNQVYYRP (comparable to mAb 3F4 and L42)	ELISA, WB, IHC, PS	50 µg
NDG-76460	Anti-Prion Protein (Hu), mAb 3F3	ELISA	100 µg
NDG-76462	Anti-Prion Protein (Bo, Hu), mAb 15F5, aa RYYRENMHRY	ELISA, WB	100 µg
NDG-76464	Anti-Prion Protein (Bo, Hu), mAb 6E2	ELISA, WB	100 µg
NDG-76466	Anti-Prion Protein (Bo, Hu), mAb 7D5	ELISA, WB	100 µg
NDG-76468	Anti-Prion Protein (Bo, Hu), mAb 5G11	ELISA, WB	100 µg
NDG-76534	Sh Scrapie-Prion-Protein (Prion Protein, PrPSc) ELISA Kit	ELISA Kit	96 Test
NDG-76535	Hu Prion-Protein ELISA Kit	ELISA Kit	96 Test

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