Neuroinflammation and Alzheimer’s disease

Release of proinflammatory mediators
- IL-1β
- IL-6
- TNFα
- IFNγ
- MIP-1α
- MIP-1β
- RANTES
- MCP1
- M-CSF

Infiltration of monocytes and macrophages

Reactive astrocytes
- GFAP

Aβ plaque

Active microglia
- TREM2

Aβ clearance

Synapse loss

Microglial complement activation

Tau on microtubules

Aβ neurofibrillary tangles (NFTs)

Tau paired helical filaments (PHFs)

Aβ oligomers

Oligomeric Tau

Aβ on membrane

Aβ on microtubules

Aβ on dendritic spine

Aβ on neuron terminal

Axon terminal

AMPA receptor

NMDA receptor

Glutamate

Apoptosis

Endocytosis

Axon

Dendritic spine

Ca2+ overload

To find out more, please visit www.abcam.com/neuroinflammation

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Get to the root cause of neurodegeneration with these tools

Amyloid beta
- Anti-Abeta Amyloid 1-42 antibody
- Recombinant Anti-Abeta Precursor Protein antibody
- Anti-Abeta (phospho S426) antibody
- Anti-Tau Alzheimer’s Disease antibody [GT-38 - Conformation-Specific]

Tau
- Anti-Tau (phospho S396) antibody
- Anti-GFAP antibody

Glia
- Anti-TMEM119 antibody
- Anti-GFAP antibody

Proinflammatory mediators
- Mouse TNF alpha ELISA Kit
- Human and mouse key cytokine panels

To learn more about amyloid beta research tools, visit www.abcam.com/neuroscience/alzheimers-disease

To learn about other products to study tau, visit www.abcam.com/neuroscience/beta-amyloid-and-tau-in-alzheimers-disease

To discover the range of SimpleStep ELISA kits, visit www.abcam.com/simplestep-elisa

To learn more about Fireplex immunoassays, visit www.abcam.com/fireplex-immunoassays

To discover the range of SimpleFluxes ELISA kits, visit www.abcam.com/simplefluxes-elsa

To learn more about Recombinant proteins, visit www.abcam.com/recombinant-proteins