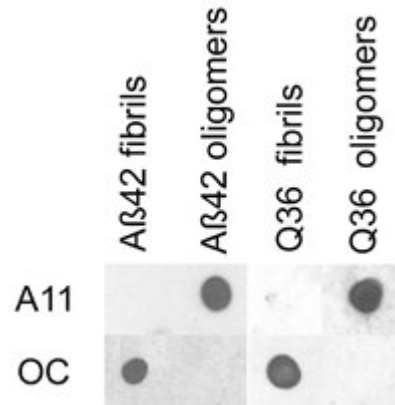


Polyclonal Antibody to Amyloid Oligomers (A11) - Purified

Alternate names:	A11, Amyloid Oligomer AlphaBeta, amyloid, oligomers
Catalog No.:	AP31729PU-N
Quantity:	0.1 mg
Concentration:	1 mg/ml
Background:	Amyloid monomeric proteins can sometimes oligomerize into destructive amyloid fibrils. Amyloidogenic conformations of non-disease related proteins can be created by partial protein misfolding or denaturation. Many degenerative diseases are known to be related to the accumulation of misfolded proteins as amyloid fibres (1, 2). These include the amyloid- β peptide plaques and tau neurofibrillary tangles in senile plaques of Alzheimer's symptomology, the deposition of α -synuclein in the Lewy bodies of Parkinson's disease, and accumulation of polyglutamine-containing aggregates in Huntington's disease (2, 3).
Host / Isotype:	Rabbit / IgG
Immunogen:	Synthetic molecular mimic of soluble oligomers.
Format:	State: Liquid purified IgG fraction Purification: Protein A purified Buffer System: PBS Preservatives: 0.09% Sodium Azide Stabilizers: 50% Glycerol
Applications:	ELISA and Dot Blot: (0.1-10 μ g/ml). Western Blot: 1/1000. Immunofluorescence. Immunoprecipitation: (1/1000). Immunohistochemistry: (1/1000-1/10,000). Certificate of Analysis: A 1/1000 dilution of AP31729PU-N was sufficient for detection of amyloid oligomers in 10 μ g of mouse brain lysates by colorimetric immunoblot analysis using Goat anti-Rabbit IgG:HRP as the secondary antibody. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Recognizes all types of Amyloid oligomers. Appears to recognize a peptide backbone epitope that is common to Amyloid oligomers, but is not found in native proteins, amyloidogenic monomer or mature amyloid fibrils.
Species Reactivity:	Tested: Human, Mouse and Rat.
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

- General Readings:**
1. Glabe C.G. (2004) Trends Biochem Sci. 29(10): 542-547.
 2. Kaye R., et al. (2004) J Bio. Chem. 279: 46363-46366.
 3. Kaye R., et al. (2003) Science. 300(5618): 486-489.

Pictures: Dot blot analysis of A β 42 and polyQ36 prefibrillar oligomers and fibrils. A β 42 and polyQ fibrils only stain with OC serum, while A β 42 and polyQ prefibrillar oligomers only react with A11 (Catalog # TA326459).



Western blot analysis of A β 42 fibrils and prefibrillar oligomers. A β 42 fibrils (F) and prefibrillar oligomers (O) were run on SDS polyacrylamide gels, transferred to nitrocellulose and probed with OC and A11 antibodies.

