

## Human/Mouse APP/Protease Nexin II Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 304904

Catalog Number: FAB2508N

100 µg

DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects multiple isoforms of human and mouse APP phosphorylated at sites corresponding to T668 of the human APP695 isoform.	
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 304904	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Phosphopeptide containing human APP T668 site	
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm	
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS			
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.			
Western Blot	Optimal dilution of this antibody should be experimentally determined.		
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.		

PREPARATION AND STORAGE		
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied	

## BACKGROUND

Amyloid precursor protein (APP) is a type I membrane protein with several human isoforms due to alternative splicing. APP-770, -751, and -733 contain a Kunitz protease inhibitor (KPI) domain (residue 291 - 342) and APP-695 does not. APP is a cell surface molecule with many functions. It can be processed proteolytically in two different pathways. In one pathway,  $\beta$ - and  $\gamma$ -secretase cleave at the  $\beta$  site between residue 670 and 671 and the  $\gamma$ - site between residue 711 and 714 to produce  $\gamma$ - secretase that cleaves residues between 687 and 688. It is antiamyloidogenic due to its benign character and the prevention of the  $\gamma$ - period formation (2). Soluble APP containing the KPI domain, also referred to as protease nexin II, is a potent inhibitor of serine proteases and may have additional functions. For example, it may regulate the contact face of blood coagulation and limit thrombosis specially in brain due to its localization and coagulation factor XI inhibiting activity (3, 4).

## PRODUCT SPECIFIC NOTICES

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