



## Anti-CYP46A1/Cholesterol 24-hydroxylase Antibody

**Alternative Names:** CP46, CYP46, Cholesterol 24-hydroxylase, Cytochrome P450 46A1

**Catalogue Number:** AB19-10097-50ug

**Size:** 50 µg

### Background Information

Cholesterol 24-hydroxylase (CYP46A1) is a cytochrome P450 enzyme and endoplasmic reticulum protein expressed in brain tissues, It is important in brain cholesterol homeostasis being responsible for cholesterol elimination by its hydroxylation into 24S-hydroxycholesterol. Cholesterol cannot cross the blood-brain barrier, but 24S-hydroxycholesterol can, allowing it to travel via the circulatory system to the liver for catabolism. Increasing evidence suggests that CYP46A1 has a role in the pathogenesis and progression of neurodegenerative disorders with there being significant CYP46A1 expression in astrocytes and around amyloid plaques in Alzheimer's disease, and increases in the level of CYP46A1 in the brain having a possible neuroprotective role in Huntington's disease.

### Product Information

<b>Antibody Type:</b>	Polyclonal	<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG	<b>Species Reactivity:</b>	Human, Mouse, Rat
<b>Immunogen:</b>	Partial length recombinant human CYP46A1 from the N-terminal region		
<b>Format:</b>	50 µg in 50 µl PBS with 0.02% sodium azide, 50% glycerol, pH7.3.		
<b>Storage Conditions:</b>	Store at -20°C. Avoid freeze / thaw cycles.		
<b>Applications:</b>	WB IHC WB 1:500-2000. IHC 1:50-100.		

### Additional Information

<b>Subcellular location:</b>	Endoplasmic reticulum membrane Microsome membrane Single-pass membrane protein	<b>MW:</b>	57kDa (Intended as a general guide and does not allow for all isoforms and species variations)
<b>Gene ID</b>	10858	<b>Uniprot ID:</b>	Q9Y6A2