

## X11 $\beta$ Polyclonal Antibody

<b>Catalog No :</b>	YT4910
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IHC;IF;WB;ELISA
<b>Target :</b>	X11 $\beta$
<b>Gene Name :</b>	APBA2
<b>Protein Name :</b>	Amyloid beta A4 precursor protein-binding family A member 2
<b>Human Gene Id :</b>	321
<b>Human Swiss Prot No :</b>	Q99767
<b>Mouse Gene Id :</b>	11784
<b>Mouse Swiss Prot No :</b>	P98084
<b>Rat Gene Id :</b>	83610
<b>Rat Swiss Prot No :</b>	O35431
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human APBA2. AA range:371-420
<b>Specificity :</b>	X11 $\beta$ Polyclonal Antibody detects endogenous levels of X11 $\beta$ protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000 IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 83kD

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**Background :** amyloid beta precursor protein binding family A member 2(APBA2) Homo sapiens The protein encoded by this gene is a member of the X11 protein family. It is a neuronal adapter protein that interacts with the Alzheimer's disease amyloid precursor protein (APP). It stabilizes APP and inhibits production of proteolytic APP fragments including the A beta peptide that is deposited in the brains of Alzheimer's disease patients. This gene product is believed to be involved in signal transduction processes. It is also regarded as a putative vesicular trafficking protein in the brain that can form a complex with the potential to couple synaptic vesicle exocytosis to neuronal cell adhesion. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

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**Function :** domain:Composed of an N-terminal domain that binds STXBP1, a middle phosphotyrosine-binding domain (PID/PTB) that mediates binding with the cytoplasmic domain of the beta-amyloid precursor protein, and two C-terminal PDZ domains thought to attach proteins to the plasma membrane.,function:Putative function in synaptic vesicle exocytosis by binding to STXBP1, an essential component of the synaptic vesicle exocytotic machinery. May modulate processing of the beta-amyloid precursor protein (APP) and hence formation of beta-APP.,similarity:Contains 1 PID domain.,similarity:Contains 2 PDZ (DHR) domains.,subunit:Part of a multimeric complex containing STXBP1 and syntaxin-1. Binds to the cytoplasmic domain of amyloid protein beta, and to the nuclear factor NF-kappa-B/p65 via its PDZ domain. Interacts with the amino-terminal domain of APBA2BP.,tissue specificity:Brain.,

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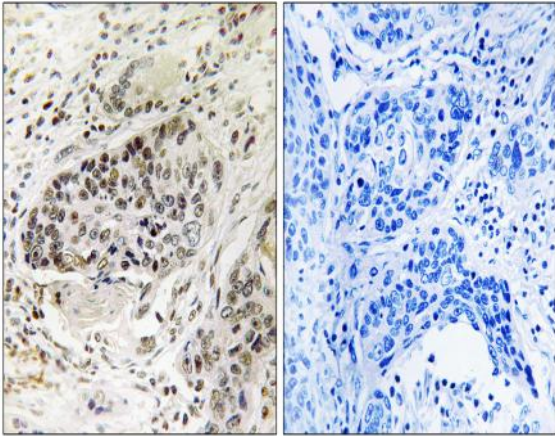
**Subcellular Location :** plasma membrane,synaptic vesicle,

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**Expression :** Brain.

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## Products Images



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using APBA2 Antibody. The picture on the right is blocked with the synthesized peptide.