

## Product datasheet for **AP05075PU-N**

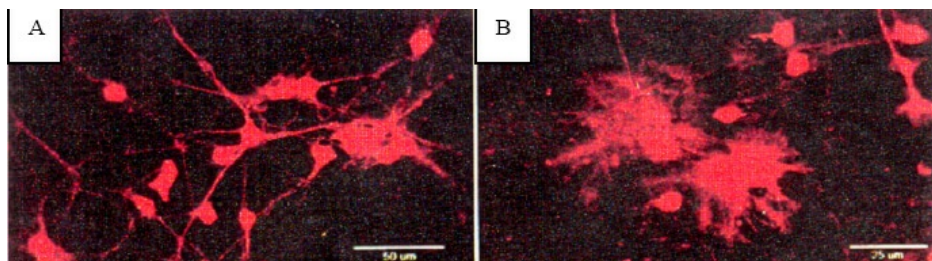
### **BAPTA Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IF, IP, WB
<b>Recommended Dilution:</b>	Western Blot: 1 - 10 µg/ml. Immunofluorescence. Immunoprecipitation.
<b>Reactivity:</b>	Chicken, Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Specificity:</b>	This antibody reacts to BAPTA.
<b>Formulation:</b>	Phosphate buffered saline with 0.08% sodium azide State: Purified State: Liquid purified Ig (0.2µm sterile filtered)
<b>Concentration:</b>	lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody at -20°C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Background:</b>	BAPTA (bis(o-aminophenoxy)-ethane-N,N,N',N'-tetraacetic acid) is a calcium channel chelator. BAPTA has spawned many of the most familiar fluorescent indicators for calcium and other ions (1). BAPTA and its analogs including BAPTA-AM have proved most critical in cell physiology where they have been essential in defining the mechanisms underlying intra or intercellular calcium homeostasis (2). and calcium dependant exocytosis (3). BAPTA and its analogs may also find application in diseases which a disturbed regulation of excitatory neurotransmitter release and uptake plays a role (4). The rabbit BAPTA antibody recognizes a 69 kDa monomer and 138 kDa dimer by western blot. The immunogen used was a recombinant BAPTA-KLH.



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**Product images:**

The regional distribution of intracellular BAPTA in neuronal and nonneuronal cells after loading with BAPTA/AM into mixed cultures is detected by BAPTA antibody. Cultures were loaded with BAPTA/AM, fixed with EDC and processed for immunofluorescence staini