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## anti-TRPC7 antibody (Internal Region)

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### **Publications**



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Quantity:	100 μg	
Target:	TRPC7	
Binding Specificity:	Internal Region	
Reactivity:	Mouse, Chicken	
Host:	Goat	
Clonality:	Polyclonal	
Conjugate:	This TRPC7 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunoprecipitation (IP), ELISA	

#### **Product Details**

Purpose:	TRPC7	
Immunogen:	Peptide with sequence KLCKSKAKSCEND, from the internal region of the protein sequence according to NP_065122.1, NP_001161049.1, NP_001161048.1.	
Sequence:	KLCKSKAKSC END	
Isotype:	IgG	
Specificity:	This antibody is expected to cross-react with isoform 1, 2 and 3 (NP_065122.1, NP_001161049.1, NP_001161048.1).	
Cross-Reactivity:	Cow, Dog, Human, Mouse, Rat	
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.	

Product Details		
Grade:	Verified	
Target Details		
Target:	TRPC7	
Alternative Name:	TRPC7 (TRPC7 Products)	
Background:	TRPC7, transient receptor potential cation channel, subfamily C, member 7, TRP7, likley ortholog of mouse transient receptor potential cation channel, subfamily C, member 7, putative capacitative calcium channel	
Gene ID:	57113, 26946, 282822	
NCBI Accession:	NP_065122, NP_001161049, NP_001161048	
Application Details		
Application Notes:	Western Blot: A 95 kDa band was observed in Chicken Embryo Heart atrial and ventricular myocyte lysates (Sabourin et al, PMID 21672930). This antibody has been successfully used in WB on Mouse (Murtaza et al., PMID: 32882106).  Peptide ELISA: antibody detection limit dilution 1:32000.	
Comment:	Immunoprecipitation: This antibody has been successfully used in IP on lysates of Chicken Embryo Heart (Sabourin et al, PMID: 21672930).	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	0.5 mg/mL	
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Handling Advice:	Minimize freezing and thawing.	
Storage:	-20 °C	

#### Handling

Storage Comment:

Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

#### **Publications**

Product cited in:

Sabourin, Antigny, Robin, Frieden, Raddatz: "Activation of transient receptor potential canonical 3 (TRPC3)-mediated Ca2+ entry by A1 adenosine receptor in cardiomyocytes disturbs atrioventricular conduction." in: **The Journal of biological chemistry**, Vol. 287, Issue 32, pp. 26688-701, (2012) (PubMed).

Sabourin, Robin, Raddatz: "A key role of TRPC channels in the regulation of electromechanical activity of the developing heart." in: **Cardiovascular research**, Vol. 92, Issue 2, pp. 226-36, (2011 ) (PubMed).