

## Secretagogin (D4V1Y) XP® Rabbit mAb



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<b>Applications:</b> W, IP, IHC-P, IF-F	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 28	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #076038	Entrez-Gene Id: 10590
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin) Immunofluorescence (Frozen)			<b>Dilution</b> 1:1000 1:50 1:3200 1:800	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Secretagogin (D4V1Y) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total secretagogin protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human secretagogin protein.				
Background		Calcium-binding proteins of different subfamilies regulate the second messenger calcium. Calbindin, calmodulin, S-100, parvalbumin, and troponin C are members of the low molecular weight calcium-binding protein family (1). Calbindin is expressed in discrete neuronal populations within the CNS and is thought to act as an intracellular calcium buffering protein. Most Purkinje cells express calbindin, which is expressed when neurons start to migrate and differentiate. In contrast, other calcium buffering proteins, such as parvalbumin, are expressed later during development and in parallel with increasing neuronal activity (2).				
		Secretagogin (SCGN) is a cytosolic calcium-binding protein with homology to calbindin-D28k (CALB1) and calretinin (CALB2). The secretagogin protein was isolated from pancreatic islets of Langerhans and insulinomas, and shows abundant pancreatic expression and reduced expression in thyroid, adrenal medulla, stomach, small intestine, and colon (3). Cloning and sequence analysis of the secretagogin cDNA indicate that the corresponding protein includes six, EF-hand calcium-binding domain tandem repeats (3). Interaction between secretagogin and vesicle trafficking proteins, including SNAP25, SNAP23, ARFGAP2, and DOC2A, suggests a possible role for SCGN in neurotransmitter and hormone release (4,5). Research studies examining secretagogin expression in fetal and developing brains point to a role for this calcium-binding protein in differentiation, brain wiring, and neuronal development (6).				
1. Kawasaki, H. et al. (1998) Biometals 11, 277-95. 2. Bastianelli, E. (2003) Cerebellum 2, 242-62. 3. Wagner, L. et al. (2000) J Biol Chem 275, 24740-51. 4. Rogstam, A. et al. (2007) Biochem J 401, 353-63. 5. Bauer, M.C. et al. (2011) Mol Biosyst 7, 2196-204. 6. Alpár, A. et al. (2012) Cell Signal 24, 378-87.						
Species Reactivity	,	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

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**Western Blot Buffer** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F:

Immunofluorescence (Frozen)

**Cross-Reactivity Key** 

**H:** Human **M:** Mouse **R:** Rat

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