

## 6/61

## LRRC8A/SWELL1 Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 85-105	Source/Isotype: Rabbit	UniProt ID: #Q8IWT6	Entrez-Gene Id: 56262
	1110110	Lindogenious	05 105	Nabbit	"QOIVIO	30202
Product Usage		Application Dilution				
Information		Western Blotting			1:1000	
		Immunoprecipitation			1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		LRRC8A/SWELL1 Antibody recognizes endogenous levels of total LRRC8A protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of mouse LRRC8A protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Leucine-rich repeat containing 8 family member A (LRRC8A) belongs to the leucine-rich repeat family of proteins. It is also named SWELL1. LRRC8A forms a heteromeric complex called the volume regulated anion channel (VRAC) with other family members such as LRRC8B, LRRC8C, LRRC8D, or LRRC8E. VRAC maintains cell volume in response to extracellular or intracellular osmotic changes (1,2). The LRRC8A-containing VRAC complex senses ionic strength and is activated by hypotonic stress (3). LRRC8A is also involved in B cell development. Mutations in the <i>LRRC8A</i> gene causes agammaglobulinemia, which is a primary immunodeficiency characterized by severely low or absent serum antibodies and circulating B-cells (4).				
Background References		1. Qiu, Z. et al. (2014) <i>Cell</i> 157, 447-58. 2. Voss, F.K. et al. (2014) <i>Science</i> 344, 634-8. 3. Syeda, R. et al. (2016) <i>Cell</i> 164, 499-511. 4. Sawada, A. et al. (2003) <i>J Clin Invest</i> 112, 1707-13.				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
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				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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