

Datasheet for ABIN969513
anti-Doublecortin antibody (AA 362-411)**7** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	Doublecortin (DCX)
Binding Specificity:	AA 362-411
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	Purified recombinant fragment of human DCX (AA: 362-411) expressed in E. coli. ,
Clone:	2G5
Isotype:	IgG1
Purification:	purified

Target Details

Target:	Doublecortin (DCX)
Alternative Name:	DCX (DCX Products)
Background:	Description: This gene encodes a member of the doublecortin family. The protein encoded by this gene is a cytoplasmic protein and contains two doublecortin domains, which bind microtubules. In the developing cortex, cortical neurons must migrate over long distances to

Target Details

reach the site of their final differentiation. The encoded protein appears to direct neuronal migration by regulating the organization and stability of microtubules. In addition, the encoded protein interacts with LIS1, the regulatory gamma subunit of platelet activating factor acetylhydrolase, and this interaction is important to proper microtubule function in the developing cortex. Mutations in this gene cause abnormal migration of neurons during development and disrupt the layering of the cortex, leading to epilepsy, mental retardation, subcortical band heterotopia ("double cortex" syndrome) in females and lissencephaly ("smooth brain" syndrome) in males. Multiple transcript variants encoding different isoforms have been found for this gene.

Aliases: DC, DBCN, LISX, SCLH, XLIS

Molecular Weight:	49.3 kDa
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Gene ID:	1641
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HGNC:	1641
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Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Buffer:	Purified antibody in PBS with 0.05 % sodium azide
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	4 °C/-20 °C
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Storage Comment:	4°C, -20°C for long term storage
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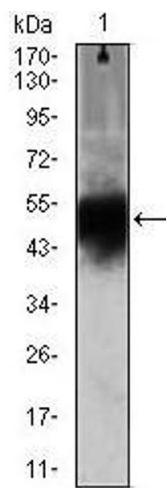
Publications

Product cited in:	Toka, Dunaway, Smaltz, Szulc-Dąbrowska, Drnevich, Mielcarska, Bossowska-Nowicka, Schweizer: "Bacterial and viral pathogen-associated molecular patterns induce divergent early transcriptomic landscapes in a bovine macrophage cell line." in: BMC genomics , Vol. 20, Issue
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1, pp. 15, (2019) ([PubMed](#)).

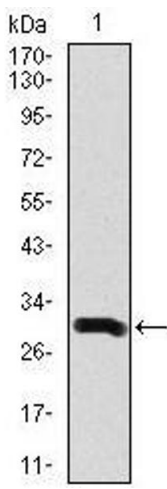
Murakami, Maeda, Yonezawa, Matsuki: "CC chemokine ligand 2 and CXC chemokine ligand 8 as neutrophil chemoattractant factors in canine idiopathic polyarthritis." in: **Veterinary immunology and immunopathology**, Vol. 182, pp. 52-58, (2016) ([PubMed](#)).

Images



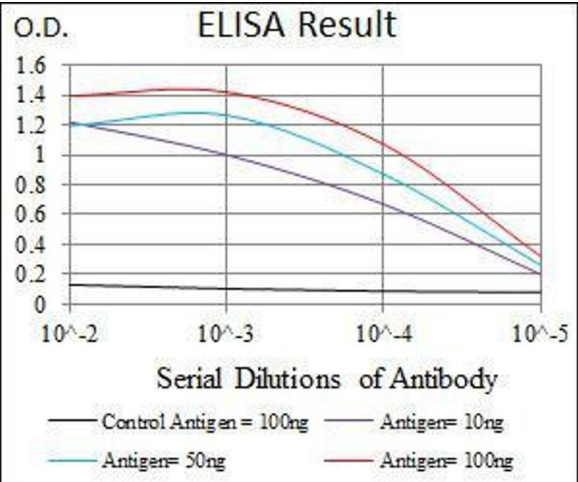
Western Blotting

Image 1. Western blot analysis using DCX mouse mAb against Mouse heart (1) lysate.



Western Blotting

Image 2. Western blot analysis using DCX mAb against human DCX recombinant protein. (Expected MW is 34.1 kDa)



ELISA

Image 3. Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN969513.