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Datasheet for ABIN335403  
**anti-OB Cadherin antibody**

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### Overview

Quantity:	0.1 mg
Target:	OB Cadherin (CDH11)
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This OB Cadherin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

### Product Details

Immunogen:	16A is a mouse monoclonal IgG1 antibody obtained by fusion of SP2/0 mouse myeloma cells with spleen cells from a mouse immunized with affinity purified extracellular domain of human cadherin-11-GST fusion protein.
Clone:	16A
Isotype:	IgG1
Specificity:	Human and rat.
Purification:	Protein A affinity column

### Target Details

Target:	OB Cadherin (CDH11)
Alternative Name:	OB-Cadherin / Cadherin-11 ( <a href="#">CDH11 Products</a> )

## Target Details

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**Background:** Cadherins constitute a family of transmembrane glycoproteins involved in Ca<sup>2+</sup>-dependent cell-cell interactions. The members of this family are differentially expressed in various tissues. They function in the maintenance of tissue integrity and morphogenesis. The cadherins generally contain five extracellular repeats, a transmembrane domain and a cytoplasmic tail that binds to the catenin family of cytoskeletal anchoring proteins which also function as signal transducers. The extracellular domains are responsible for the specificity of homophilic interactions between cells expressing the same cadherin. Cadherins are divided into type I and type II subgroups. Type I cadherins include epithelial cadherin (E-cadherin, cadherin-1 or uvomorulin), neural cadherin (N-cadherin or cadherin-2), placental cadherin (P-cadherin or cadherin-3) and retinal cadherin (R-cadherin or cadherin-4). Kidney cadherin (K-cadherin or cadherin-6) and osteoblast cadherin (OB-cadherin or cadherin-11) are type II cadherins. The progression of carcinomas is associated with the loss of epithelial morphology and a concomitant acquisition of a more mesenchymal phenotype, which is thought to contribute to the invasive and/or metastatic behavior. A putative role for cadherin-11 in these late stages of tumor progression is based on the fact that migration of mesenchymal cells is facilitated when cadherin-11 is highly expressed.

## Application Details

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**Application Notes:** 16A recognizes the extracellular domain of cadherin-11. 16A is suitable for immunoblotting, immunocytochemistry and immunohistochemistry on frozen sections when using a PBS buffer containing 0.1 mM CaCl<sub>2</sub> and 0.1 mM MgCl<sub>2</sub>. Optimal antibody dilution should be determined by titration, recommended range is 1:25 - 1:50 for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:25 - 1:250 for immunoblotting applications.

**Restrictions:** For Research Use only

## Handling

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**Storage:** 4 °C

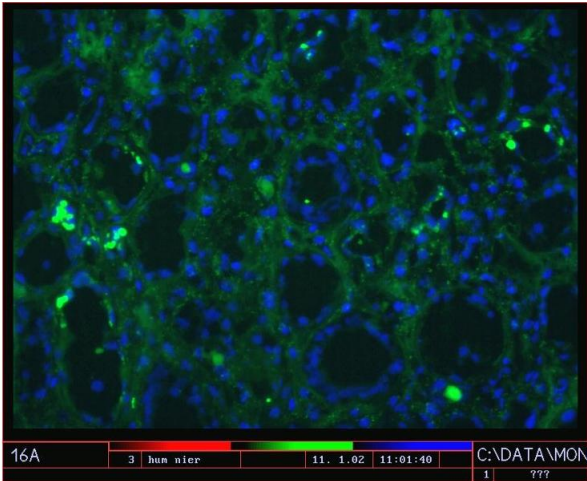
## Publications

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**Product cited in:** Tomita, van Bokhoven, van Leenders, Ruijter, Jansen, Bussemakers, Schalken: "Cadherin switching in human prostate cancer progression." in: **Cancer research**, Vol. 60, Issue 13, pp. 3650-4, (2000) ([PubMed](#)).

Bussemakers, Van Bokhoven, Tomita, Jansen, Schalken: "Complex cadherin expression in human prostate cancer cells." in: **International journal of cancer. Journal international du cancer**, Vol. 85, Issue 3, pp. 446-50, (2000) ([PubMed](#)).

Images



**Image 1.**

PC3  $\alpha$ Ncat92.1

Cadherine 11



**Western Blotting**

**Image 2.** Western blot on a lysate of Cadherine 11 transfected PC3 cells