

## Product datasheet for **BM6020P**

### OB Cadherin (CDH11) Mouse Monoclonal Antibody [Clone ID: 16A]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	16A
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Immunoblotting.</b> <b>Immunocytochemistry.</b> <b>Immunohistochemistry on Frozen Sections:</b> Use a PBS buffer containing 0.1 mM CaCl <sub>2</sub> and 0.1 mM MgCl <sub>2</sub> . <i>Recommended Dilutions:</i> 1/25-1/50 for Immunohistochemistry with Avidin-biotinylated Horseradish Peroxidase Complex (ABC) as detection reagent and 1/25-1/250 for Immunoblotting applications.
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Affinity purified extracellular domain of Human Cadherin-11-GST fusion protein.
Specificity:	This antibody recognizes the extracellular domain of Cadherin-11.
Formulation:	PBS with 0.09% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	cadherin 11
Database Link:	<a href="#">Entrez Gene 1009 Human P55287</a>



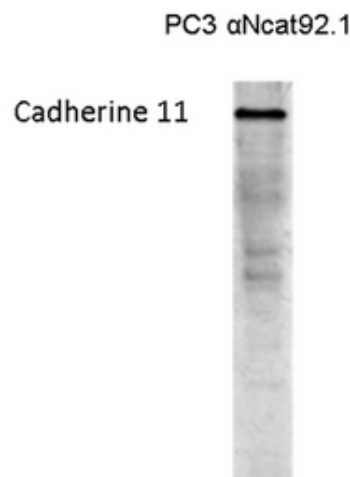
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**Background:**

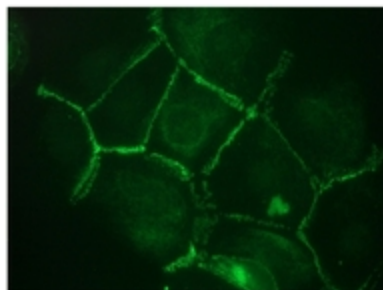
Cadherins constitute a family of transmembrane glycoproteins involved in  $\text{Ca}^{2+}$ -dependent cell-cell interactions. The members of this family are differentially expressed in various tissues. They function in the maintenance of tissue integrity and morphogenesis. The cadherins generally contain 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.

**Synonyms:**

Osteoblast cadherin, OSF-4, CDH11, OB Cadherin

**Product images:**


Western blot on a lysate of Cadherin 11 transfected PC3 cells



Immunocytochemistry on Cadherin 11 transfected PC3 cells