

TotalSeq™-C0131 anti-human Cadherin 11 Antibody

Catalog# / Size	368717 / 10 µg
Clone	16G5
Regulatory Status	RUO
Other Names	OSF-4, Osteoblast cadherin, OB-cadherin, CDH11, CDHOB, CAD11
Isotype	Mouse IgG1, κ
Barcode Sequence	CGTTGCCATTAACCA
Description	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells. Cadherin 11 is a type I transmembrane glycoprotein. It is a type II (atypical) cadherin, based on its lack of a HAV cell adhesion recognition sequence that is specific to type I cadherins. The expression of this particular cadherin in osteoblastic cell lines along with its upregulation during differentiation suggests a specific function in bone development and maintenance. This cadherin is also expressed in some cancer cells.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant protein containing the extracellular cadherin domain 1 of Cadherin 11 fused to maltose binding protein.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-C oligomer under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	PG - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-C antibodies are compatible with 10x Genomics Chromium Single Cell Immune Profiling Solution.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
Application Notes	Additional reported applications (for the relevant formats) include: immunoprecipitation.
Additional Product Notes	TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required. Please contact technical support for more information, or visit biolegend.com/totalseq .

The barcode flanking sequences are CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR handle), and NNNNNNNNNCCCATATAAGA*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Scientific Poster Library](#).

RRID AB_2892448 (BioLegend Cat. No. 368717)

Antigen Details

Structure	Type I single pass transmembrane glycoprotein.
Distribution	Osteoblasts, neuroblasts, and some cancer cells.
Function	Cell adhesion.
Interaction	Cadherin 2 (CDH2).
Ligand/Receptor	Calcium.
Cell Type	Osteoclasts
Biology Area	Cell Adhesion, Cell Biology, Immunology, Neuroscience, Synaptic Biology
Molecular Family	Adhesion Molecules
Antigen References	1. Wheelock MJ, Johnson KR. 2003. <i>Annu Rev Cell Dev Biol.</i> 19:207-35. 2. Christofori G, <i>et al.</i> 2003. <i>EMBO J.</i> 22:2318. 3. Okazaki M, <i>et al.</i> 1994. <i>J Biol Chem.</i> 269:12092.
Gene ID	1009

Related Protocols

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

Other Formats

Purified anti-human Cadherin 11, APC anti-human Cadherin 11, PE anti-human Cadherin 11, PE/Cyanine7 anti-human Cadherin 11, Alexa Fluor® 488 anti-human Cadherin 11, Alexa Fluor® 647 anti-human Cadherin 11, TotalSeq™-C0131 anti-human Cadherin 11

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587