

# E-cadherin Monoclonal Antibody (ECCD-2)

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Dog, Tag, Avian, Rat, Pig, Hamster, Fish, Human, Mouse
Host/Isotype	Rat / IgG2a
Class	Monoclonal
Type	Antibody
Clone	ECCD-2
Conjugate	Unconjugated
Immunogen	Mouse liver E-cadherin fragment.
Form	Lyophilized
Concentration	2.0 mg/mL
Purification	Ion-exchange chromatography
Storage buffer	20mM TBS, pH 7.5, with 1% BSA
Contains	no preservative
Storage conditions	4° C
RRID	AB_2533005

Applications	Tested Dilution	Publications
Western Blot (WB)	10 µg/mL	32 Publications
Immunohistochemistry (IHC)	-	71 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	10 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL	10 Publications
Immunocytochemistry (ICC/IF)	-	51 Publications
Flow Cytometry (Flow)	-	11 Publications
Immunoprecipitation (IP)	-	2 Publications
Miscellaneous PubMed (Misc)	-	34 Publications

## Product Specific Information

**Source:** Monoclonal antibody was obtained by fusing the P3-X63-Ag8 mouse myeloma cell line with spleen cells of Donryu rat after immunization with mouse teratocarcinoma and mouse liver E-cadherin fragment.

**Specificity:** This antibody specifically reacts with mouse E-cadherin. This antibody does not inhibit E-cadherin-dependent cell-cell contact.

**Cross reactivity:** This antibody reacts with human and dog E-cadherin. This antibody does not react with bovine or chicken E-cadherin.

Western blot can be performed under reducing or non-reducing conditions.

**Reconstitution and dilution:** dissolve the lyophilized antibody in 50 µl of distilled water to a final concentration 2.0 mg/mL. This

solution can be used as a stock solution. If dilution is necessary for your application, dilute the stock solution in 500  $\mu$ L or more of the following dilution solution: 20mM TBS (pH 7.5), 10mM CaCl<sub>2</sub>, 1.0% BSA, 0.1% NaN<sub>3</sub>. Note that TBS should be used for dilution, as PBS causes precipitation.

**Storage:** When stored at 4°C, 0.1% sodium azide should be added as a preservative. Store the antibody at a minimum concentration of 2.0 mg/mL; a lower antibody concentration may result in decreased stability. The stock solution (2.0mg/mL) should be stored in aliquots at -20°C for 1year, or stored at 4°C for 6 months after adding 0.1% sodium azide. Avoid repeated freeze-thaw cycles. Diluted antibody should not be stored.

Western Blot (32)

<p>The Journal of clinical investigation</p> <p><b>Cyclin G1 induces maladaptive proximal tubule cell dedifferentiation and renal fibrosis through CDK5 activation.</b></p> <p>"13-1900 was used in Western Blotting to demonstrate that global deletion of CG1 inhibits G2/M arrest and fibrosis."</p> <p>Authors: Taguchi K,Elias BC,Sugahara S,Sant S,Freedman BS,Waikar SS,Pozzi A,Zent R,Harris RC,Parikh SM,Brooks CR</p>	<p>Year 2022</p> <p>Species Mouse</p>
<p>Current biology : CB</p> <p><b>The CD44/COL17A1 pathway promotes the formation of multilayered, transformed epithelia.</b></p> <p>"13-1900 was used in Western Blotting to suggest that CD44 and COL17A1 are crucial regulators for the clonal expansion of transformed cells within multilayered epithelia, thus being potential targets for early diagnosis and preventive treatment for precancerous lesions."</p> <p>Authors: Kozawa K,Sekai M,Ohba K,Ito S,Sako H,Maruyama T,Kakeno M,Shirai T,Kuromiya K,Kamasaki T,Kohashi K,Tanaka S,Ishikawa S,Sato N,Asano S,Suzuki H,Tanimura N,Mukai Y,Gotoh N,Tanino M,Tanaka S,Natsuga K,Soga T,Nakamura T,Yabuta Y,Saitou M,Ito T,Matsuura K,Tsunoda M,Kikumori T,Iida T,Mizutani Y,Miyai Y,Kaibuchi K,Enomoto A,Fujita Y</p>	<p>Year 2021</p> <p>Species Mouse</p>

View more WB references on thermofisher.com

Immunohistochemistry (71)

<p>The Journal of clinical investigation</p> <p><b>Cyclin G1 induces maladaptive proximal tubule cell dedifferentiation and renal fibrosis through CDK5 activation.</b></p> <p>"13-1900 was used in Western Blotting to demonstrate that global deletion of CG1 inhibits G2/M arrest and fibrosis."</p> <p>Authors: Taguchi K,Elias BC,Sugahara S,Sant S,Freedman BS,Waikar SS,Pozzi A,Zent R,Harris RC,Parikh SM,Brooks CR</p>	<p>Year 2022</p> <p>Species Mouse</p>
<p>Life science alliance</p> <p><b>Aerocyte specification and lung adaptation to breathing is dependent on alternative splicing changes.</b></p> <p>"13-1900 was used in Immunohistochemistry-immunofluorescence to reveal that the cell type-specific regulation of It;igt; Vegfalt;igt; alternative splicing just before birth modulates the epithelial-endothelial crosstalk in the developing alveoli to promote lung adaptation to breathing."</p> <p>Authors: Fidalgo MF,Fonseca CG,Caldas P,Raposo AA,Balboni T,Henao-Mišíková L,Grosso AR,Vasconcelos FF,Franco CA</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:1000</p>

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

- IHC (P) (10)
- IHC (PFA) (1)
- IHC (F) (10)
- ICC/IF (51)
- Flow (11)
- IP (2)
- Misc (34)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.