

N-cadherin Antibody

Datasheet

For Research Use Only

Description	Catalog No.	Size
N-cadherin Concentrate	FP-A064-01	0.1 ml
N-cadherin Concentrate	FP-A064-05	1 ml
N-cadherin Predilute	FP-A064-70	7 ml

Description

N-cadherin, also known as Cadherin-2 (CDH2) or Neural Cadherin (NCAD), is a transmembrane cell adhesion molecule that was originally detected in nervous tissue. It plays an important role in embryogenesis, being involved in gastrulation and neural crest development. N-cadherin is found in cancer cells and allows for transendothelial migration, which is a critical process in the metastasis of cancer. Overexpression and disorderly arrangement of N-cadherin has been noted in dilated cardiomyopathy. It has been suggested that, when considered in adjunct with the status of a number of additional cell-cell adhesion molecules, missense mutations in N-cadherin may be a potential indicator of obsessive-compulsive disorder and Tourette disorder.

Specifications

Clone	IHC636
Source	Mouse Monoclonal
Applications	IHC (P)
Formulation	Tris Buffer, pH 7.3 - 7.7, with 1% BSA and <0.1% Sodium Azide

IHC Procedure*

Positive Control Tissue	Breast
Concetrated Dilution	1:50 – 1:200
Pretreatment	Perform heat-induced epitope retrieval (HIER) at pH 9 for 10 to 30 minutes
Incubation Time and Temp	10 to 30 minutes at room temperature
Detection	Refer to the detection system manual

*Result should confirmed by an established diagnostic procedure.

Result

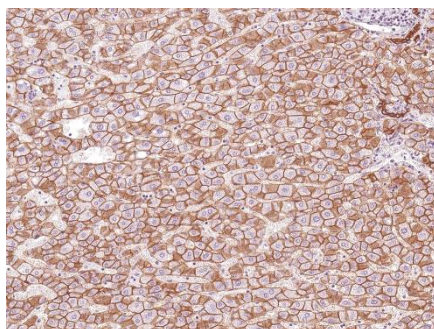


Figure. N-cadherin on Liver

Storage and Handling

Must store the reagent at 2-8 °C. Do not freeze. Do not use the reagent after expiration date on vial. To ensure proper stability and delivery of the antibody after each run, replace the cap and immediately place the bottle in a refrigerator in an upright position. Positive and negative controls should be simultaneously run with unknown specimens, as there are no conclusive characteristics to suggest instability of the antibody.

Precautions

The product is for research use only. Do not use for diagnosis purpose. Ensure proper handling procedures are used with all reagents. Always wear laboratory coats, disposable gloves, and other appropriate laboratory equipment when handling reagents. Do not ingest reagents, and avoid contact with eyes and mucous membranes. Wash eyes with copious amounts of water if contact occurs.

References

1. **Walsh FS**, et al. "N-cadherin gene maps to human chromosome 18 and is not linked to the E-cadherin gene." *J Neurochem.* 1990 Sep;55(3):805-12.
2. **Reid RA**, et al. "Human N-cadherin: nucleotide and deduced amino acid sequence." *Nucleic Acids Res.* 1990 Oct 11;18(19):5896.
3. **Ramis-Conde I**, et al. "Multi-scale modelling of cancer cell intravasation: the role of cadherins in metastasis." *Phys Biol.* 2009 Mar 25;6(1):016008.
4. **Moya PR**, et al. "Rare missense neuronal cadherin gene (CDH2) variants in specific obsessive-compulsive disorder and Tourette disorder phenotypes." *Eur J Hum Genet.* 2013 Aug;21(8):850-4.
5. **Tsipis A**, et al. "Apoptosis-related factors p53, bcl-2 and the defects of force transmission in dilated cardiomyopathy." *Pathol Res Pract.* 2010 Sep 15;206(9):625-30.
6. **Derycke LD**, et al. "N-cadherin in the spotlight of cell-cell adhesion, differentiation, embryogenesis, invasion and signalling." *Int J Dev Biol.* 2004;48(5-6):463-76.

Technical Support

Contact FemtoPath Technical Support at +886232338585 or email to femtopath@hongjing.com.tw for questions regarding this product.