

Datasheet for ABIN7244798

anti-Dematin antibody**2** Images[Go to Product page](#)

Overview

Quantity:	200 µL
Target:	Dematin (EPB49)
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Dematin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Synthetic peptide of human DMTN
Isotype:	IgG
Characteristics:	Polyclonal Antibody
Purification:	Antigen affinity purification

Target Details

Target:	Dematin (EPB49)
Alternative Name:	DMTN (EPB49 Products)
Background:	The protein encoded by this gene is an actin binding and bundling protein that plays a structural role in erythrocytes, by stabilizing and attaching the spectrin/actin cytoskeleton to the erythrocyte membrane in a phosphorylation-dependent manner. This protein contains a core domain in the N-terminus, and a headpiece domain in the C-terminus that binds F-actin. When

Target Details

purified from erythrocytes, this protein exists as a trimer composed of two 48 kDa polypeptides and a 52 kDa polypeptide. The different subunits arise from alternative splicing in the 3' coding region, where the headpiece domain is located. Disruption of this gene has been correlated with the autosomal dominant Marie Unna hereditary hypotrichosis disease, while loss of heterozygosity of this gene is thought to play a role in prostate cancer progression. Alternative splicing results in multiple transcript variants encoding different isoforms. DMTN (Dematin Actin Binding Protein) is a Protein Coding gene. Diseases associated with DMTN include Hypotrichosis and Hereditary Spherocytosis. Among its related pathways are Transport of glucose and other sugars, bile salts and organic acids, metal ions and amine compounds and Miscellaneous transport and binding events. GO annotations related to this gene include receptor binding and protein self-association. An important paralog of this gene is ABLIM1.

Molecular Weight: Observed_MW: Refer to figures
Calculated_MW: 46 kDa

UniProt: [Q08495](#)

Pathways: [Regulation of Actin Filament Polymerization](#)

Application Details

Application Notes: WB 1:500-1:2000, IHC 1:20-1:100, ELISA 1:5000-1:10000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.5 mg/mL

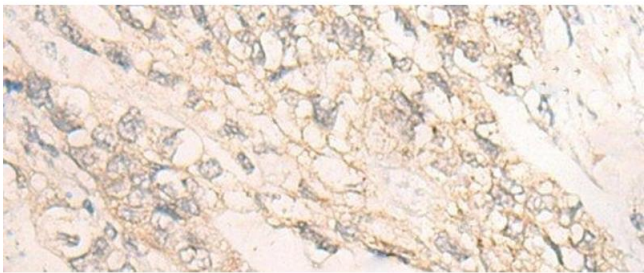
Buffer: PBS with 0.05 % Sodium azide and 40 % Glycerol, pH 7.4

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

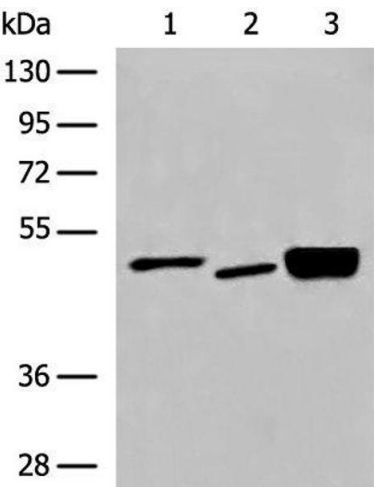
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using DMTN Polyclonal Antibody at dilution of 1:35(x200)



Western Blotting

Image 2. Western blot analysis of 293T cell Human cerebrum tissue and Mouse brain tissue lysates using DMTN Polyclonal Antibody at dilution of 1:550