

Product datasheet for **TA384106**

DISC1 Rabbit Monoclonal Antibody [Clone ID: R03-7F5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R03-7F5
Applications:	IF, IHC, IP, WB
Recommended Dilution:	WB: 1/1000 IHC: 1/20-1/100 ICC/IF: 1/2000 IP: 1/20
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Recombinant protein of human DISC1
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 94 kDa; Observed MW: 94 kDa
Gene Name:	disrupted in schizophrenia 1
Database Link:	Entrez Gene 27185 Human Q9NRI5



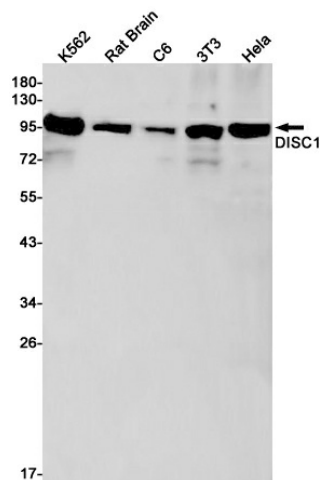
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Background:

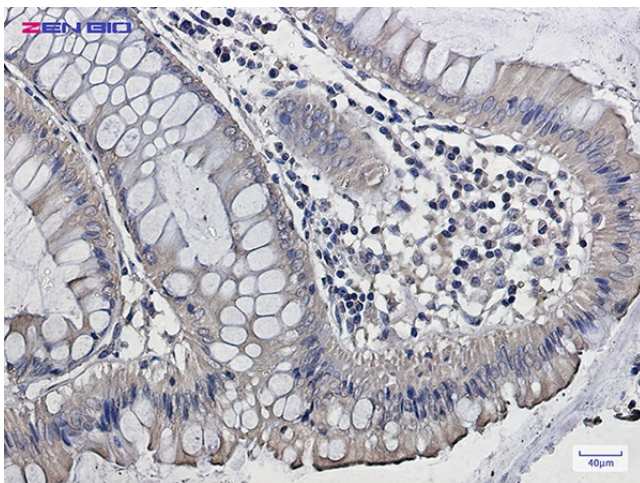
Swiss-Prot Acc.Q9NRI5. Involved in the regulation of multiple aspects of embryonic and adult neurogenesis. Required for neural progenitor proliferation in the ventricular/subventricular zone during embryonic brain development and in the adult dentate gyrus of the hippocampus. Participates in the Wnt-mediated neural progenitor proliferation as a positive regulator by modulating GSK3B activity and CTNNB1 abundance. Plays a role as a modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration during adult neurogenesis, including neuron positioning, dendritic development and synapse formation. Inhibits the activation of AKT-mTOR signaling upon interaction with CCDC88A. Regulates the migration of early-born granule cell precursors toward the dentate gyrus during the hippocampal development. Plays a role, together with PCNT, in the microtubule network formation.

Synonyms:

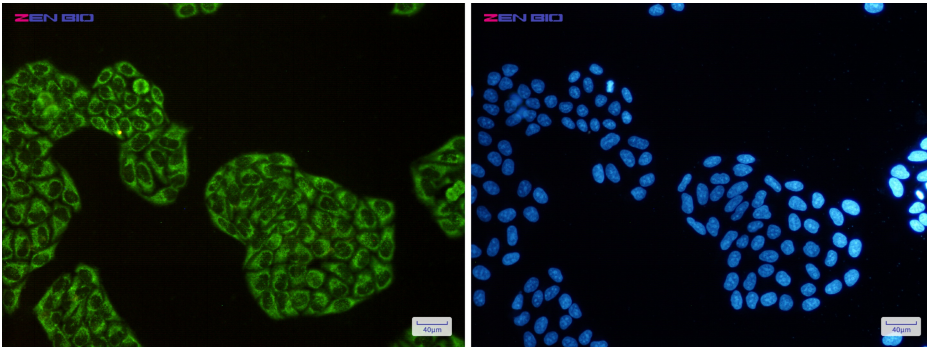
C1orf136; FLJ13381; FLJ21640; FLJ25311; FLJ41105; KIAA0457; SCZD9

Product images:

Western blot analysis of DISC1 in K562, rat Brain, C6, 3T3, HeLa lysates using DISC1 antibody.



Immunohistochemistry of DISC1 in paraffin-embedded Human colon cancer tissue using DISC1 Rabbit mAb at dilution 1/2



Immunocytochemistry of DISC1(green) in HeLa cells using DISC1 Rabbit mAb at dilution 1/50, and DAPI(blue)