Revision 1

Store at -20C

#2877

FE65 Antibody

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	M R	Endogenous	100	Rabbit	#O00213	322

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

FE65 Antibody detects endogenous levels of FE65. It does not cross-react with FE65L1 or FE65L2.

Species predicted to react based on 100% sequence homology

Human

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of human FE65. Antibodies are purified by protein A and peptide affinity chromatography.

Background

FE65, FE65L1, and FE65L2 are members of the FE65 protein family. FE65 is an adaptor protein with protein-protein interaction domains, including a WW domain followed by two phosphotyrosine interaction domains (PID1 and PID2) (1). Amyloid-β (Aβ) precursor protein (APP) binds to PID2 and undergoes sequential cleavage. First, α-/β secretases cleave and release the ectodomain into the extracellular environment. Subsequent processing by the γ-secretase complex results in the APP intracellular domain (AICD) and the Aβ peptides. The latter Aβ fragments form the main components of amyloid plaques in patients with Alzheimer's disease (2). FE65 family members can regulate APP processing, resulting in elevated levels of Aβ (3). Double knockout mice of FE65 and FE65L1 display a phenotype that occurs in animals lacking APP family members, supporting a functional interaction between FE65 and APP (4).

Background References

1. Russo, T. et al. (1998) *FEBS Lett* 434, 1-7.
2. Selkoe, D.J. (1996) *J Biol Chem* 271, 18295-8.
3. King, G.D. and Scott Turner, R. (2004) *Exp Neurol* 185, 208-19.
4. Guénette, S. et al. (2006) *EMBO J* 25, 420-31.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

M: Mouse **R:** Rat

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Limited Uses

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