

Anti-FE65 antibody ab51980

[1 References](#) [1 Image](#)

Overview

Product name	Anti-FE65 antibody
Description	Goat polyclonal to FE65
Host species	Goat
Specificity	This antibody is expected to recognise both reported isoforms.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse
Immunogen	Peptide with sequence CGSLKPKRLGAHTP, from the C Terminus of the protein sequence (Human)
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	<p>pH: 7.30</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: 0.5% BSA, Tris buffered saline</p>
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab51980 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		

Application notes

ELISA: 1/128000.

WB: Use at a concentration of 0.1 - 0.3 µg/ml. Detects a band of approximately 100 kDa (observed in lysates of NIH/3T3 and HeLa).

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Transcription coregulator that can have both coactivator and corepressor functions. Adapter protein that forms a transcriptionally active complex with the gamma-secretase-derived amyloid precursor protein (APP) intracellular domain. Plays a central role in the response to DNA damage by translocating to the nucleus and inducing apoptosis. May act by specifically recognizing and binding histone H2AX phosphorylated on 'Tyr-142' (H2AXY142ph) at double-strand breaks (DSBs), recruiting other pro-apoptosis factors such as MAPK8/JNK1. Required for histone H4 acetylation at double-strand breaks (DSBs). Its ability to specifically bind modified histones and chromatin modifying enzymes such as KAT5/TIP60, probably explains its transcription activation activity. Function in association with TSHZ3, SET and HDAC factors as a transcriptional repressor, that inhibits the expression of CASP4. Associates with chromatin in a region surrounding the CASP4 transcriptional start site(s).

Tissue specificity

Highly expressed in brain; strongly reduced in post-mortem elderly subjects with Alzheimer disease.

Sequence similarities

Contains 2 PID domains.
Contains 1 WW domain.

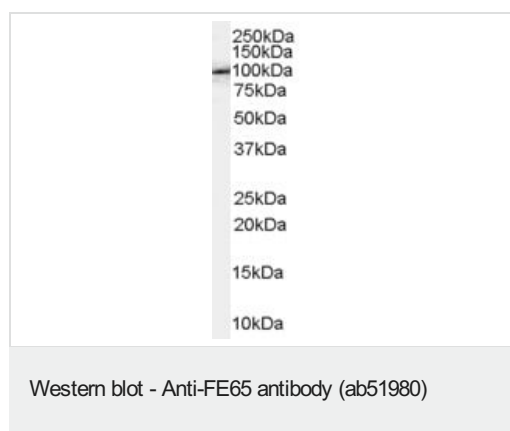
Post-translational modifications

Phosphorylated following nuclear translocation. Phosphorylation at Tyr-546 enhances the transcription activation activity and reduces the affinity with RASD1/DEXRAS1.

Cellular localization

Cell membrane. Cytoplasm. Nucleus. Cell projection > growth cone. Colocalizes with TSHZ3 in axonal growth cone (By similarity). In normal conditions, it mainly localizes to the cytoplasm, while a small fraction is tethered to the cell membrane via its interaction with APP. Following exposure to DNA damaging agents, it is released from cell membrane and translocates to the nucleus. Nuclear translocation is under the regulation of APP. Colocalizes with TSHZ3 in the nucleus.

Images



Anti-FE65 antibody (ab51980) at 0.1 µg/ml + NIH/3T3 lysate in RIPA buffer at 35 µg

Observed band size: 100 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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