

# Fe65 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse, Human
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic Peptide: P(352) Q E E E K L S Q R N A N P G I K C(369)
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2057223

Applications	Tested	Dilution	Published
Immunocytochemistry (ICC)	✓	2 µg/mL	1 Publication
Western Blot (WB)	✓	1-2 µg/mL	1 Publication
Immunofluorescence (IF)	✓	2 µg/mL	

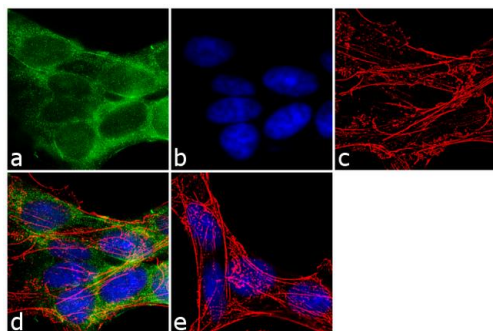
## Product Specific Information

PA1-752 detects Fe65 from purified mouse samples. This antibody does not detect endogenous levels of Fe65.

PA1-752 has been successfully used in Western blot procedures. By Western blot, this antibody detects an 97 kDa protein representing Fe65 from immunopurified mouse brain lysate.

The PA1-752 immunizing peptide corresponds to amino acid residues 352-369 from mouse Fe65. This peptide (Cat. # PEP-200) is available for use in neutralization and control experiments.

## Product Images For Fe65 Polyclonal Antibody



### Fe65 Antibody (PA1-752) in IF

Immunofluorescence analysis of Fe65 was performed using 70% confluent log phase SH-SY5Y cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Fe65 Rabbit Polyclonal Antibody (Product # PA1-752) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.

### Fe65 Antibody (PA1-752) in WB

Western blot analysis was performed using tissue and membrane enriched extracts (30 µg lysate) of U-87 MG (Lane 1), SH-SY5Y (Lane 2), NTERA-2 (Lane 3), U-2 OS (Lane 4), A549 (Lane 5), Mouse Brain (Lane 6) and PC-12 (Lane 7). The blots were probed with Anti-Fe65 Rabbit Polyclonal Antibody (Product # PA1-752, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A ~ 77 kDa band corresponding to Fe65 was observed across cell lines and tissue tested. Additionally ~ 41 kDa band was observed in U-87 MG, A549, and Mouse brain. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

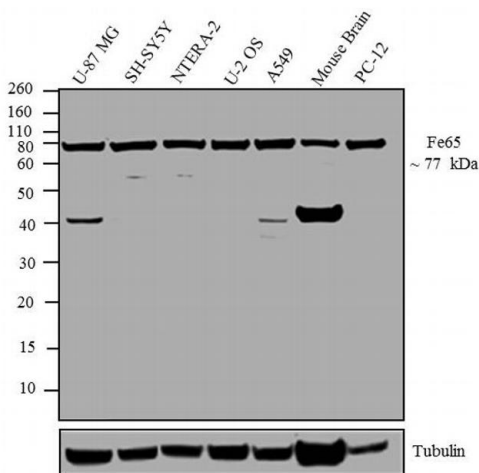
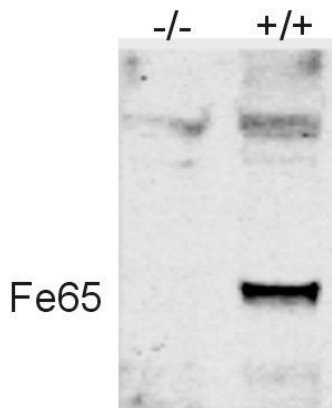


Fig. 1



### Fe65 Antibody (PA1-752) in WB

Western blot of Fe65-affinity pull-down materials from mouse brain lysate using Product # PA1-752. Lane 1 is an immunopurified sample from a full-length Fe65 Knockout mouse. Lane 2 is an immunopurified sample from an Fe65 wild type mouse.

## 2 References

### Immunocytochemistry (1)

Neurobiology of aging

#### Age-related accumulation of Reelin in amyloid-like deposits.

"PA1-752 was used in immunocytochemistry to examine the Reelin accumulation of Reelin in amyloid-like deposits during ageing"

Authors: Knuesel I, Nyffeler M, Mormède C, Muhia M, Meyer U, Pietropaolo S, Yee BK, Pryce CR, LaFerla FM, Marighetto A, Feldon J

**Species**  
Mouse

**Dilution**  
1:1000

**Year**  
2009

### Western Blot (1)

The Journal of biological chemistry

#### RNA interference silencing of the adaptor molecules ShcC and Fe65 differentially affect amyloid precursor protein processing and Aβ generation.

"PA1-752 was used in western blot to investigate the effects of RNAi-mediated silencing of the adaptor molecule Fe65 on amyloid precursor protein (APP) processing and A-β generation"

Authors: Xie Z, Dong Y, Maeda U, Xia W, Tanzi RE

**Species**  
Human

**Dilution**  
1:1,000

**Year**  
2007

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