

Huntingtin Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide conjugated to KLH via cysteine corresponding to CPSDSSEIVLD (577-586) of Human HTT.
Form	Liquid
Concentration	0.6 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2539851

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	1:50 - 1:200	-
Immunocytochemistry (ICC/IF)	1:50-1:200	-
ELISA (ELISA)	1:20 - 1:100	-

Product Specific Information

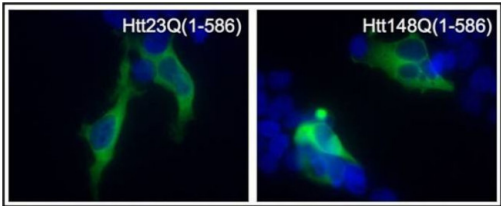
Neopeptide antibodies distinguish smaller cleaved fragments or processed forms of proteins versus the intact full-length or precursor by using a designed peptide purification process to maximize immunoreactivity to a specific cleavage site.

Human HTT caspase cleavage sites generate fragment-specific forms of the protein. Caspase-3/7 has been shown to generate cleavage sites at amino acids 513 and 552. Caspase-2 cleaves at amino acid 552 and caspase-6 at amino acid 586. Neo-specific antibody PA1-004 recognizes the 586 cleaved fragment without detecting the full-length form.

Product Images For Huntingtin Polyclonal Antibody

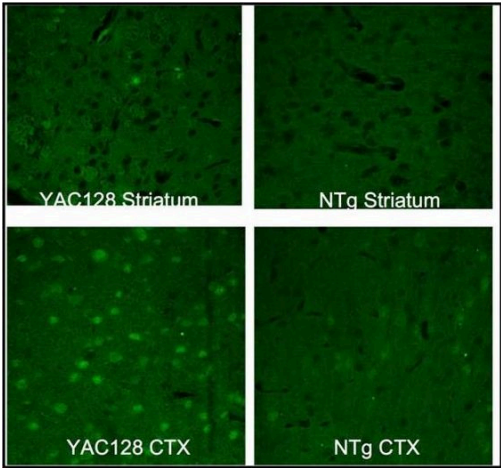
Huntingtin Antibody (PA1-004) in ICC/IF

Immunofluorescent analysis of Caspase cleaved Htt (green) in 293T cells transfected with Htt23Q and Htt148Q stop constructs ending in amino acid 586. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 5% normal goat serum for 15 minutes at room temperature. Cells were probed with an Htt neo-epitope 586 polyclonal antibody (Product # PA1-004) at a dilution of 1:50 for at least 1 hour at room temperature, washed with PBS, and incubated with goat-anti-rabbit secondary antibody at room temperature. Nuclei (blue) were stained with Hoechst dye.



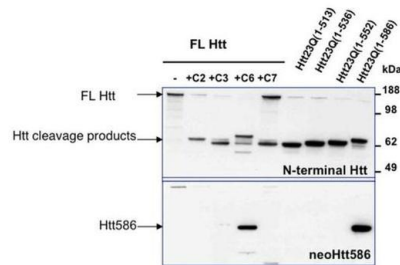
Huntingtin Antibody (PA1-004) in IHC

Immunohistochemistry was performed on tissues from either transgenic HD mice of the YAC128 line (left panels) or their WT littermates (right panels). Striatum (top panels) and cortex (bottom panels) tissue samples were probed with an Htt neo-epitope 586 polyclonal antibody (Product # PA1-004) at a dilution of 1:50 overnight at 4°C in a humidified chamber. Tissues were washed extensively and endogenous peroxidase activity quenched for 30 minutes at room temperature. Detection was performed using a goat anti-rabbit HRP secondary antibody (green) and prepped for mounting.



Huntingtin Antibody (PA1-004) in WB

Western blot analysis of endogenous HTT lysates with or without different caspase activity (Lanes 1-5) and overexpressed recombinant HTT fragment lysates (Lanes 6-9) was performed by loading 20 µg of lysate per well onto a 4-12% Bis-Tris polyacrylamide gel. Proteins were transferred to a nitrocellulose membrane and blocked with 3% BSA/TBST for at least 1 hour. Membranes were then probed with a N-terminal pan-HTT antibody (top panel) or neoepitope-specific rabbit polyclonal antibody Product # PA1-004 (bottom panel) at a dilution of 1:500 overnight at 4°C on a rocking platform. Membranes were then washed in TBS-0.1%Tween 20 and probed with a goat anti-rabbit-HRP secondary antibody at 1:30,000 for at least one hour. Membranes were washed and chemiluminescent detection was performed using SuperSignal West Pico (Product # 34080).



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Western Blot (1)

Chemistry & biology	Year 2010
Identification and evaluation of small molecule pan-caspase inhibitors in Huntington's disease models.	Species Human
"PA1-004 was used in western blot to validate the role of caspase inhibitors in Huntington's Disease"	
Authors: Leyva MJ, Degiacomo F, Kaltenbach LS, Holcomb J, Zhang N, Gafni J, Park H, Lo DC, Salvesen GS, Ellerby LM, Ellman JA	

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