**BACKGROUND**

Huntingtin is a protein that contains a polyglutamine region. When the number of glutamine repeats exceeds 35, the gene encodes a version of Huntingtin that leads to Huntington's disease (HD). When the polyglutamine stretch is mutated, Huntingtin acts within the nucleus to induce neurodegeneration by a cell-specific apoptotic mechanism. Loss of Huntington activity is unlikely to be the cause of HD, and it has been proposed that the expanded glutamine repeat region may induce an abnormal interaction between the mutant protein and other cellular proteins. Huntingtin interacts with a variety of proteins including HAP1, glyceraldehyde phosphate dehydrogenase (GAPDH) and HIP1.

**CHROMOSOMAL LOCATION**

Genetic locus: Htt (human) mapping to 4p16.3; Htt (mouse) mapping to 5B2.

**SOURCE**

Huntingtin (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Huntingtin of human origin.

**PRODUCT**

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-8767P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

Huntingtin (N-18) is recommended for detection of Huntingtin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Huntingtin (N-18) is also recommended for detection of Huntingtin in additional species, including canine, bovine and porcine.


Molecular Weight of Huntingtin: 350 kDa.

Positive Controls: mouse brain extract: sc-2253, Jurkat whole cell lysate: sc-2204 or rat brain extract: sc-2392.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CitATIONS**


**MONOS Satisfaction Guaranteed**

Try Huntingtin (3E10): sc-47757 or Huntingtin (4E10): sc-47758, our highly recommended monoclonal alternatives to Huntingtin (N-18).