

Anti-Huntington pS421 (RABBIT) Antibody - 600-401-433

Cod	le: 600-401-433	Size : 100 μg
Product Description:	Anti-Huntington pS421 (RABBIT) Antibody - 600-401-433	
Concentration:	1.0 mg/mL by UV absorbance at 280 nm	
PhysicalState:	: Liquid (sterile filtered)	
Label	Unconjugated	
Host	Rabbit	
Gene Name	нтт	
Species Reactivity	human	
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2	
Stabilizer	None	
Preservative	0.01% (w/v) Sodium Azide	
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at - Avoid cycles of freezing and thawing. Centrifuge product if not comp temperature. This product is stable for several weeks at 4° C as an u immediate use.	letely clear after standing at room
Synonyms	AI256365 antibody, C430023I11Rik antibody, HD antibody, HD prote HUNTINGTON CHOREA antibody, Huntington disease protein antibo	
Application Note	Anti-Huntingtin pS421 antibody has been tested for use in ELISA, im Specific conditions for reactivity should be optimized by the end user and 200 kDa in size corresponding to full-length Huntingtin protein ar protein, respectively, by western blotting in the appropriate cell lysate the phosphorylated form of Huntingtin protein at the pS421 residue. kDa is not known.	. Expect bands at approximately 350 kDa nd truncated (hypothetical) Huntingtin e or extract. This antibody is specific for
Background	Huntingtin (also known as Huntington's disease protein, Htt and HD p gene linked to Huntington's disease, a neuro-degenerative disorder of This may be caused by an expanded, unstable trinucleotide repeat in polyglutamine repeat in the protein product (see partial protein seque large, spanning 180 kb and consisting of 67 exons. It is expressed a displaying different relative abundance in various fetal and adult tissu. Huntington's disease may not necessarily eliminate transcription, but or alter the function of the protein. One candidate is the huntingtin-as brain, which has increased affinity for huntingtin protein with expande protein shows a cytoplasmic localization. This protein is widely expre- the brain (nerve fibers, varicosities, and nerve endings). In the brain, are the cerebellar cortex, the neocortex, the striatum, and the hippoc	characterized by loss of striatal neurons. In the huntingtin gene, which translates as a ence below). The huntingtin gene locus is s 2 alternatively polyadenylated forms les. The genetic defect leading to may confer a new property on the mRNA isociated protein-1, highly expressed in ad polyglutamine repeats. Normal huntingtin assed with the highest level of expression in the regions where it can be mainly found
Purity And Specificity	Anti-Huntingtin pS421 is an affinity purified antibody produced by imr phospho peptide coupled to agarose beads followed by solid phase a and non-specific peptide to remove any unwanted reactivities. This a human Huntingtin protein at the pS421 residue. BLAST analysis indi sequence with Huntingtin homologues from chimpanzee, pig and chi protein homologues from mouse and rat may also occur as sequence residue in this sequence. Reactivity with Huntingtin protein from othe is expected with the non-phosphorylated form of the protein.	adsorption(s) against non-phospho peptide ntibody is specific for phosphorylated icates 100 % homology of the immunizing cken. Cross reactivity with Huntingtin e homology varies by one amino acid
Assay Dilutions	User Optimized	
ELISA	1:10,000 - 1:40,000	
Immunohistochemistry	1:50 - 1:100	
WESTERN BLOT	1:500 - 1:3,000	
IHC	1:50 - 1:100	
OTHER ASSAYS	User Optimized	
Expiration	Expiration date is one (1) year from date of opening.	
Immunogen	Huntingtin pS421 Antibody was prepared from whole rabbit serum pr synthetic peptide corresponding aa 416-424 of Human huntingtin pro	

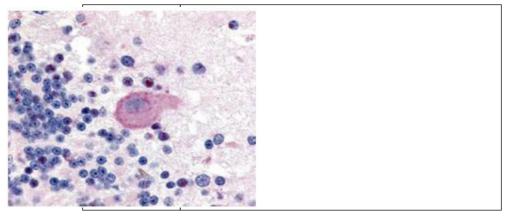
Related Products

100-4147	Anti-BETA AMYLASE (RABBIT) Antibody - 100-4147
200-401-984	Anti-Beta-site APP-Cleaving Enzyme (BACE/Asp2) (RABBIT) Antibody - 200-401-984
610-4302	Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302

Related Links

Images

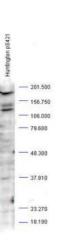
Rockland's Affinity Purified anti-Huntingtin pS421 antibody was used at a 1:100 dilution to detect phosphorylated Huntingtin by immunohistochemistry in human brain cerebellum. Positive cytoplasmic staining is observed in neurons. Tissue was formalinfixed and paraffin embedded. Personal Communication, Alan Yen, LifeSpanBiosciences, Seattle, WA.



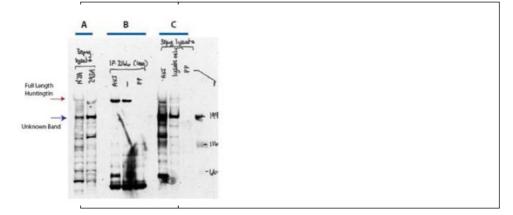
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Western blot analysis is shown using Rockland Immunochemcials' Affinity Purified anti-Huntingtin pS421 antibody to detect endogenous protein present in an unstimulated human PC-3 whole cell lysate (arrowhead). Comparison to a molecular weight marker indicates a band of ~190 kDa corresponding to truncated human Huntingtin protein. The blot was incubated with a 1:1,000 dilution of the antibody at room temperature followed by detection using standard techniques. Personal communication, Steven Pelech, Kinexus Inc., Vancouver, BC.



Western blot analysis after AKT and phosphatase treatment is shown using Rockland's Affinity Purified anti-Huntingtin pS421 antibody. In A) untreated lysates from N2A and 293A cells were stained directly using anti-Huntingtin pS421 antibody. Full length staining of Huntingtin is noted, albeit at low levels of expression, as well as a strongly staining band at 200 kDa that may represent staining of truncated protein. In B) staining is shown after immunoprecipitation using a monoclonal antibody (Mab2166) followed by AKT treatment (to phosphorylate), along with untreated, and phosphatase (PP) treated (dephosphorylate) immunopreci-pitated Htt. Full length phosphorylated huntingtin is clearly detected in these immunopurified samples (except dephosphorylate). In C) lysates are treated directly with AKT or PP to alter the phosphorylation status of Htt. Personal communication, Simon Warby, CMMT, Vancouver, BC.



Disclaimer

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