

À des fins de recherche uniquement

# Anticorps Polyclonal de lapin anti-SFPQ



Numéro de catalogue: 15585-1-AP

Phare

21 Publications

## Informations de base

<b>Numéro de catalogue:</b> 15585-1-AP	<b>Numéro d'acquisition GenBank:</b> BC051192	<b>Méthode de purification:</b> Purification par affinité contre l'antigène
<b>Taille:</b> 150ul, Concentration: 350 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	<b>Identification du gène (NCBI):</b> 6421	<b>Dilutions recommandées:</b> WB 1:2000-1:16000 IHC 1:20-1:200 IF 1:50-1:500
<b>Hôte:</b> Lapin	<b>Nom complet:</b> splicing factor proline/glutamine-rich (polypyrimidine tract binding protein associated)	
<b>Isotype:</b> IgG	<b>MW calculé</b> 76 kDa	
<b>Immunogen Catalog Number:</b> AG7181	<b>MW observés:</b> 90-100 kDa	

## Applications

### Applications testées:

IF, IHC, WB, ELISA

### Demandes citées:

ELISA, IF, IHC, IP, RIP, WB

### Spécificité de l'espèce:

Humain, rat, souris

### Espèces citées:

Humain, souris

**Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (\*) A défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.**

### Contrôles positifs:

**WB :** cellules HeLa, cellules BxPC-3, cellules Jurkat, cellules MCF-7, cellules PC-3, cellules Y79, tissu cérébral de souris, tissu cérébral humain

**IHC :** tissu cérébral humain,

**IF :** cellules HeLa,

## Informations générales

SFPQ, also named PSF, encodes a nuclear factor implicated in the splicing and regulation of gene expression. SFPQ probably forms a heteromer with NONO and participates in DNA pairing and DNA break repair program. Very recently SFPQ was identified as a downstream target of tau, complete nuclear depletion and cytoplasmic accumulation of SFPQ were shown in the neurons and astrocytes of brains with Alzheimer's disease (AD), more strikingly, reduced SFPQ levels may progress together with tau pathology, these observation strongly suggests the important role of SFPQ pathology in neurodegenerative diseases including AD. SFPQ encompasses 707 amino acids and has a molecular weight of 76 kDa, although it typically migrates on a sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE) gel at an apparent molecular weight of 100 kDa. Proteolytic cleavage products of apparent molecular weights of 47 and 68 kDa, and an alternatively spliced form of 669 amino acids, have also been described in various cell types. (PMID: 25832716). Splicing Factor Proline and Glutamine rich (SFPQ) as the most significant intron-retaining transcript across diverse ALS-causing mutations (VCP, SOD1 and FUS). SFPQ protein binds extensively to its retained intron, which exhibits high cytoplasmic abundance in VCP mutation compared with controls. Crucially, the protein is less abundant in the nuclei of VCP mutation cultures and is ultimately lost from nuclei of MNs in mouse models (SOD1mu and VCP mutation transgenic mouse models) and human sporadic ALS post-mortem samples. In summary, our study implicates SFPQ IR and nuclear loss as general molecular hallmarks of familial and sporadic ALS.

## Publications notables

Autrice	Pubmed ID	Journal	Application
Shaojun Zhang	34737357	Cell Res	WB
Shi-Wei He	32661324	Oncogene	WB,RIP,IF
Xu Wang	35910786	Theranostics	WB

## Stockage

### Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

### Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

\*\*\* Les 20ul contiennent 0,1% de BSA.

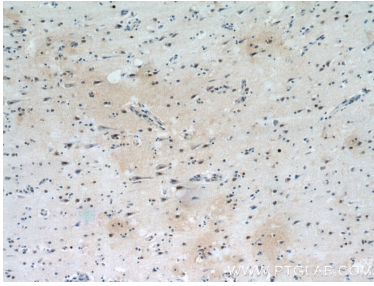
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

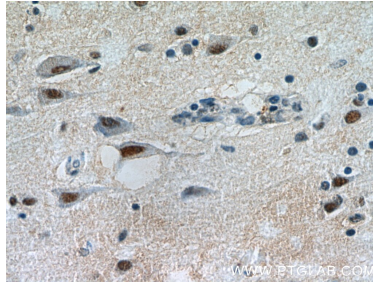
E: proteintech@ptglab.com  
W: ptglab.com

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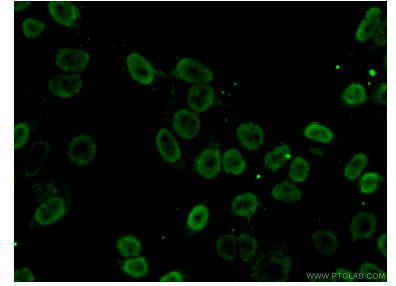
## Données de validation sélectionnées



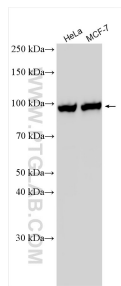
Immunohistochemical analysis of paraffin-embedded human brain using 15585-1-AP (SFPQ antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 15585-1-AP (SFPQ antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 15585-1-AP (SFPQ antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 15585-1-AP (SFPQ antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.