

# IHC*easy* FUS/TLS Ready-To-Use IHC Kit

Catalog Number: **KHC0937**

## General Information

**Sample type:**  
FFPE tissue

**Cited sample type:**

**Reactivity:**  
Human, Mouse, Rat

**Cited Reactivity:**

**Assay type:**  
Immunohistochemistry

**Primary antibody type:**  
Mouse Monoclonal

**Secondary antibody type:**  
Polymer-HRP-Goat anti-Mouse

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL × 2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

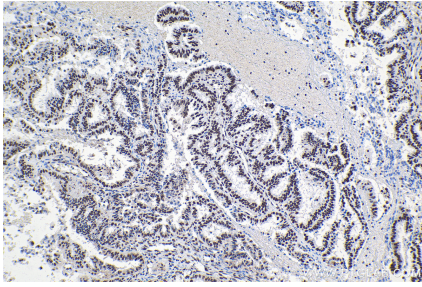
## Background

FUS (also named TLS and POMp75) belongs to the RRM TET family. FUS may play a role in the maintenance of genomic integrity; it binds both single-stranded and double-stranded DNA and promotes ATP-independent annealing of complementary single-stranded DNAs and D-loop formation in superhelical double-stranded DNA. FUS is also an RNA-binding protein, and its links to neurodegenerative disease proffer the intriguing possibility that altered RNA metabolism or RNA processing may underlie or contribute to neuron degeneration. It has been reported that FUS is present in 5% of the pathological aggregations (inclusions) seen in familial amyotrophic sclerosis (fALS). FUS-positive inclusions were also reported in cases of sporadic ALS (sALS). More recently, wild-type FUS has also been implicated in the pathological development of frontotemporal lobar dementia (FTLD) with ubiquitin-positive inclusions (FTLD-U), further linking FUS to the pathogenesis of neurodegenerative diseases. There is some debate as to whether FUS colocalizes with TDP-43 in TDP-43-positive cases of ALS and whether TDP-43 and FUS cause neurodegenerative disease independently or contributively of one another.

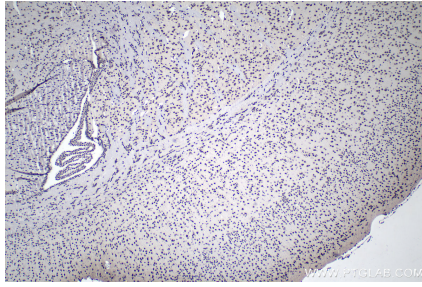
## Synonyms

75 kDa DNA pairing protein, FUS, FUS1, FUS-CHOP, hnRNP P2, Oncogene FUS, Oncogene TLS, POMp75, RNA binding protein FUS, TLS

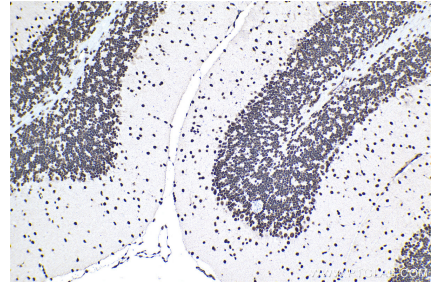
## Selected Validation Data



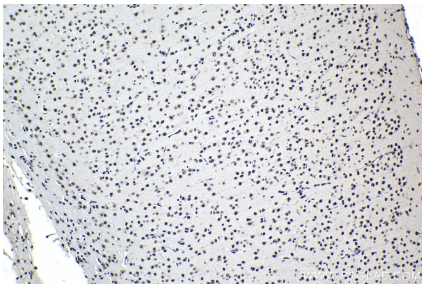
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using KHC0937 (FUS/TLS IHC Kit).



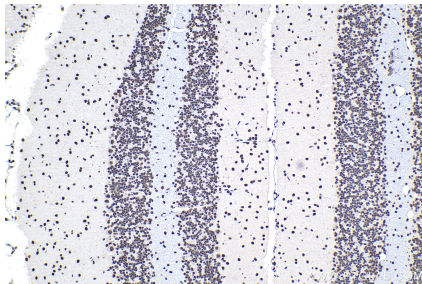
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using KHC0937 (FUS/TLS IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using KHC0937 (FUS/TLS IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using KHC0937 (FUS/TLS IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using KHC0937 (FUS/TLS IHC Kit).