

## **α-Internexin**

Cat.No. 167-0P; control protein, 100 µg protein (lyophilized)

### **Data Sheet**

Reconstitution/ Storage	100 µg protein, lyophilized. For reconstitution add 100 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Immunogen	Recombinant protein corresponding to AA 1 to 499 from human α-Internexin (UniProt Id: Q16352)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	167 002
Remarks	This control protein consists of the recombinant full length human α internexin that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of protein needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

The cytoskeleton of most eukaryotic cells is composed of three distinct components: Actin-based microfilaments, tubulin based microtubules and intermediate filaments (IFs).

**α-Internexin** is a neuronal intermediate filament of type four. It is assumed to be expressed by all neurons and precedes the onset of the expression of the heavy medium and light variants of neurofilaments which are major components of the neuronal IFs.

Alterations in the phosphorylation state of IFs have been associated with neurodegenerative diseases like Alzheimer, Parkinson, dementia with Lewy bodies (DLB), and motor neuron disease (MND).

### **Selected General References**

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