

# IFFO Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56035

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q0D2I5</a>
<b>Reactivity</b>	Rat, Dog, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	61979
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human IFFO
<b>Epitope Specificity</b>	401-500/559
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SIMILARITY</b>	Belongs to the intermediate filament family.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	Intermediate filaments are composed of two-chain, $\alpha$ -helical, coiled-coil molecules arranged on an imperfect helical lattice. They have been widely used as markers for distinguishing individual cell types within a tissue and identifying the origins of metastatic tumors. Vimentin is a general marker of cells originating in the mesenchyme and is frequently co-expressed with other members of the intermediate filament family, such as the cytokeratins, in certain neoplasms. Vimentin and Desmin, a related class III intermediate filament, are both expressed during skeletal muscle development. Desmuslin links Desmin to the extracellular matrix and provides structural support in muscle. HOM-TES-103, also known as intermediate filament family orphan 1 (IFFO1), is a 559 amino acid protein that belongs to the intermediate filament family. Ubiquitously expressed, HOM-TES-103 exists as seven alternatively spliced isoforms.

## Additional Information

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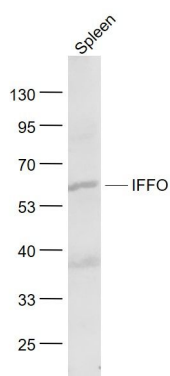
<b>Gene ID</b>	25900
<b>Other Names</b>	Non-homologous end joining factor IFFO1, NHEJ factor IFFO1, Intermediate filament family orphan 1, Tumor antigen HOM-TES-103, IFFO1 ( <a href="#">HGNC:24970</a> ), IFFO
<b>Target/Specificity</b>	Ubiquitously expressed.
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000

<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glycerol
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

<b>Name</b>	IFFO1 ( <a href="#">HGNC:24970</a> )
<b>Synonyms</b>	IFFO
<b>Function</b>	Nuclear matrix protein involved in the immobilization of broken DNA ends and the suppression of chromosome translocation during DNA double-strand breaks (DSBs) (PubMed: <a href="#">31548606</a> ). Interacts with the nuclear lamina component LMNA, resulting in the formation of a nucleoskeleton that relocalizes to the DSB sites in a XRCC4-dependent manner and promotes the immobilization of the broken ends, thereby preventing chromosome translocation (PubMed: <a href="#">31548606</a> ). Acts as a scaffold that allows the DNA repair protein XRCC4 and LMNA to assemble into a complex at the DSB sites (PubMed: <a href="#">31548606</a> ).
<b>Cellular Location</b>	Nucleus. Nucleus, nucleoplasm. Nucleus inner membrane. Nucleus matrix. Note=Mainly soluble, the remaining is localized in the nuclear matrix (PubMed:31548606). Localized at double- strand break (DSB) sites near the lamina and nuclear matrix structures (PubMed:31548606).
<b>Tissue Location</b>	Ubiquitously expressed.

## Images



Sample:  
 Spleen (Mouse) Lysate at 40 ug  
 Primary: Anti- IFFO (AP56035) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 62 kD  
 Observed band size: 62 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.