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IFFO Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56035

Specification

IFFO Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q0D2I5
Reactivity	**Rat, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**62 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human IFFO**
Epitope Specificity	**401-500/559**
Isotype	**IgG**

Purity
affinity purified by Protein A

Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SIMILARITY	**Belongs to the intermediate filament family.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
Intermediate filaments are composed of two-chain, a-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.

IFFO Polyclonal Antibody - Additional Information

Gene ID 25900

Other Names
Non-homologous end joining factor IFFO1, NHEJ factor IFFO1, Intermediate filament family orphan 1, Tumor antigen HOM-TES-103, IFFO1 (HGNC:24970), IFFO

Target/Specificity
Ubiquitously expressed.

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

IFFO Polyclonal Antibody - Protein Information

Name IFFO1 (HGNC:24970)

Synonyms IFFO

Function
Nuclear matrix protein involved in the immobilization of broken DNA ends and the suppression of chromosome translocation during DNA double-strand breaks (DSBs) (PubMed:31548606). 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:31548606). Acts as a scaffold that allows the DNA repair protein XRCC4 and LMNA to assemble into a complex at the DSB sites (PubMed:31548606).

Cellular Location
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).

Tissue Location
Ubiquitously expressed.

IFFO Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

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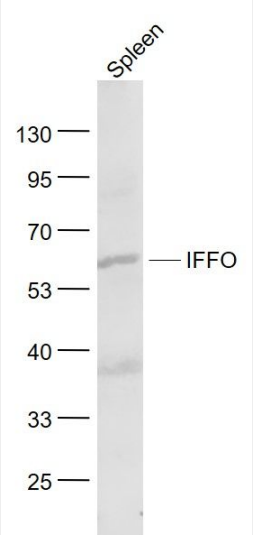
- Flow Cytomety
- Cell Culture

IFFO Polyclonal Antibody - Images



Sample:
Spleen (Mouse) Lysate at 40 ug
Primary: Anti- IFFO (bs-15546R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 62 kD
Observed band size: 62 kD