



Rabbit Anti-DEF6/IBP antibody

SL20306R

Product Name:	DEF6/IBP
Chinese Name:	Interferon调节因子4Binding protein抗体
Alias:	DEF-6; Def6; DEF16_HUMAN; Differentially expressed in FDCEP 6 homolog; Differentially expressed in FDCEP 6 homologue mouse; IBP; IRF4-binding protein; Swap70 like adapter of T cells.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	74kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DEF6/IBP:51-150/631
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	DEF6 is a 631 amino acid protein that is widely expressed in T and B cells of the immune system. Localized to the nucleus, cytoplasm and cell membrane, DEF6 is a phosphatidylinositol 3,4,5-trisphosphate-dependent guanine nucleotide exchange factor (GEF) that functions to activate Rho GTPases such as Rac 1, Cdc42 and Rho A. Via its ability to activate various Rho GTPases, DEF6 can regulate cell shape, movement and

polarity and, through its interaction with T helper cells, DEF6 can also help mediate the immune response. DEF6 contains one PH (pleckstrin homology) domain which is required for binding to phosphatidylinositol 3,4,5-trisphosphate and subsequent recruitment to the plasma membrane.

Function:

Phosphatidylinositol 3,4,5-trisphosphate-dependent guanine nucleotide exchange factor (GEF) which plays a role in the activation of Rho GTPases RAC1, RhoA and CDC42. Can regulate cell morphology in cooperation with activated RAC1. Plays a role in Th2 (T helper cells) development and/or activation, perhaps by interfering with ZAP-70 signaling.

Subunit:

Interacts with ZAP70 (By similarity). Interacts with IRF4, activated RAC1 and F-actin. Both the phosphorylated and non-phosphorylated forms bind phosphatidylinositol 3,4,5-trisphosphate (PtdInsP3).

Subcellular Location:

Cytoplasm. Cell membrane. Nucleus. Recruited to the plasma membrane upon binding phosphatidylinositol 3,4,5-trisphosphate.

Tissue Specificity:

Broadly expressed in the immune system and can be detected in T and B-cells.

Post-translational modifications:

Tyrosine-phosphorylated by tyrosine-protein kinase LCK in response to T-cell activation.

Similarity:

Contains 1 PH domain.

SWISS:

Q9H4E7

Gene ID:

50619

Database links:

[Entrez Gene: 50619](#)Human

[Entrez Gene: 23853](#)Mouse

[Entrez Gene: 309642](#)Rat

[Omim: 610094](#)Human

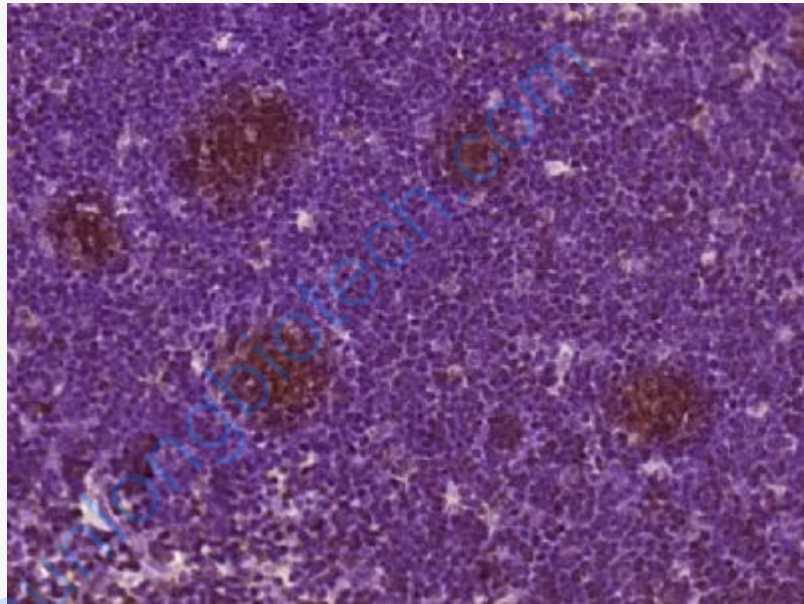
[SwissProt: Q9H4E7](#)Human

[SwissProt: Q8C2K1](#)Mouse

[Unigene: 15476](#)Human

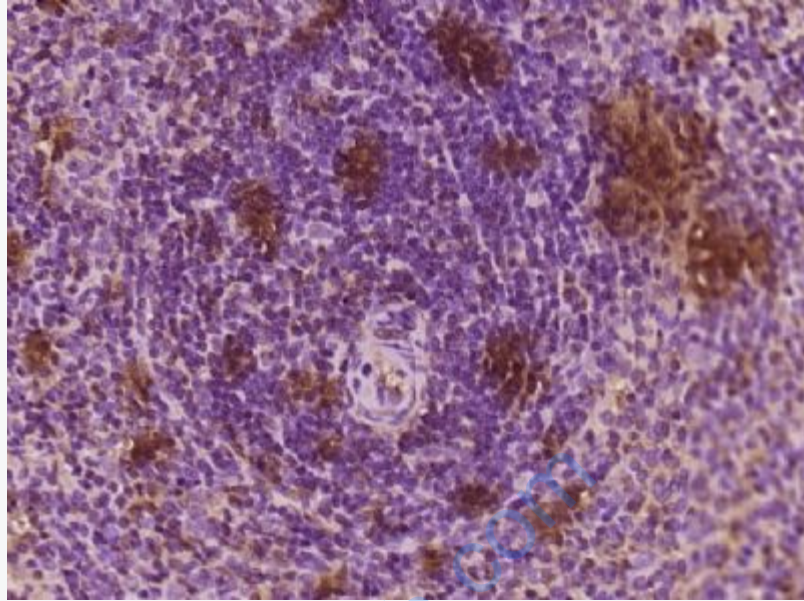
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (rat thymus tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DEF6) Polyclonal Antibody, Unconjugated (SL20306R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat spleen tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DEF6) Polyclonal Antibody, Unconjugated (SL20306R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.