



Rabbit Anti-IMPACT antibody

SL16625R

Product Name:	IMPACT
Chinese Name:	IMPACT蛋白抗体
Alias:	IMPACT; Impact homolog (mouse); Impact homolog; impact RWD domain protein; IMPCT_HUMAN; Imprinted and ancient gene protein homolog; MGC33718; Protein IMPACT; RWD domain containing 5; RWDD5.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=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:	36kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human IMPACT:21-120/320
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
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:	Translational regulator that ensures constant high levels of translation under amino acid starvation. Acts by interacting with GCN1/GCN1L1, thereby preventing activation of GCN2 protein kinases (EIF2AK1 to 4) and subsequent down-regulation of protein synthesis.

Function:

Translational regulator that ensures constant high levels of translation under amino acid starvation. Acts by interacting with GCN1/GCN1L1, thereby preventing activation of GCN2 protein kinases (EIF2AK1 to 4) and subsequent down-regulation of protein synthesis (By similarity). May be required to regulate translation in specific neuronal cells under amino acid starvation conditions by preventing GCN2 activation and therefore ATF4 synthesis (By similarity). Through its action on GCN2, may also facilitate neuritogenesis (By similarity).

Subunit:

Interacts with GCN1/GCN1L1 (By similarity).

Subcellular Location:

Cytoplasm (By similarity). Note=May be associated with polysomes (By similarity).

Tissue Specificity:

Widely expressed. Expressed at high level in brain.

Similarity:

Belongs to the IMPACT family.
Contains 1 RWD domain.

SWISS:

Q9P2X3

Gene ID:

55364

Database links:

[Entrez Gene: 55364](#) Human

[Entrez Gene: 100009333](#) Rabbit

[SwissProt: Q9P2X3](#) Human

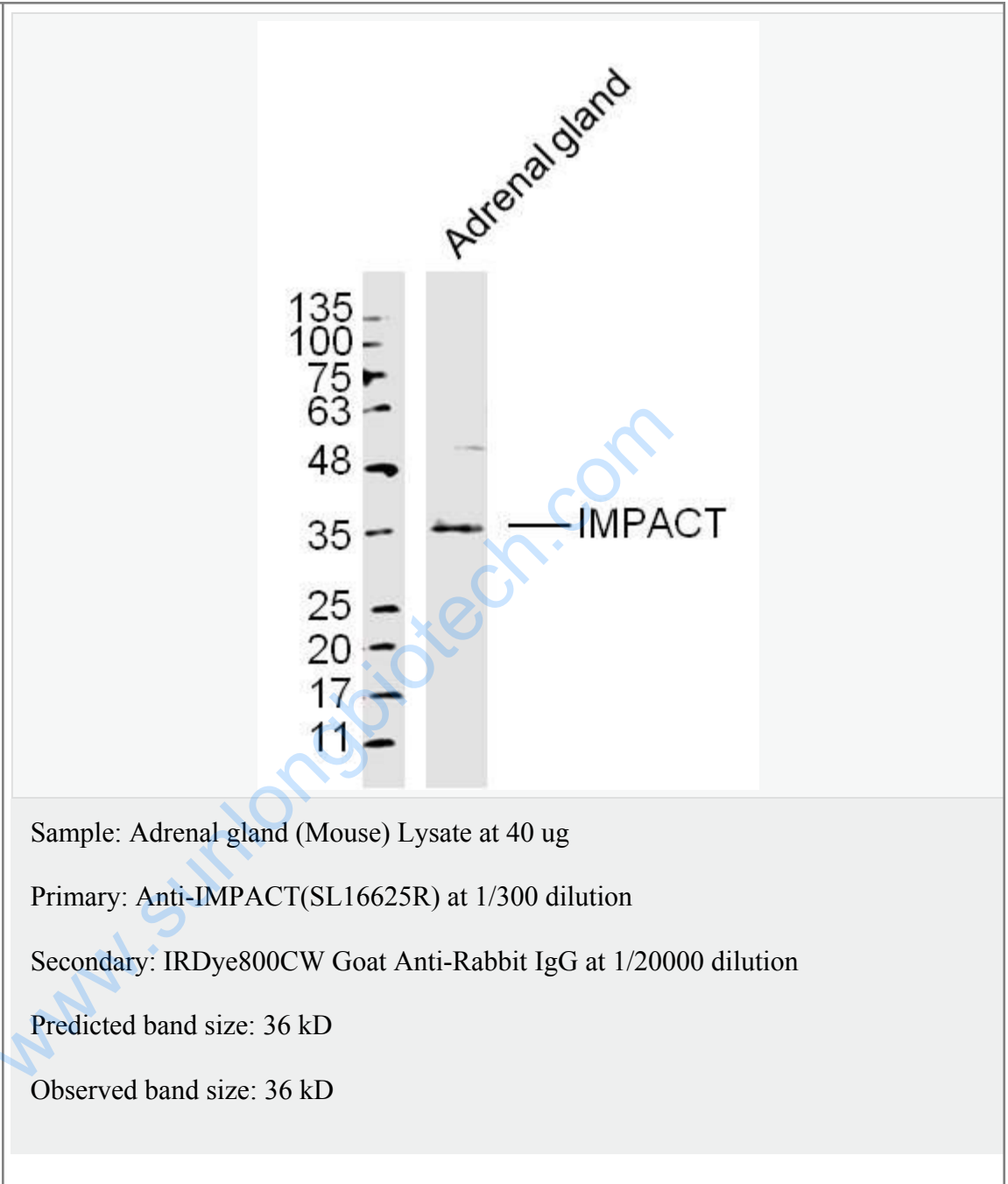
[SwissProt: Q5GFD8](#) Rabbit

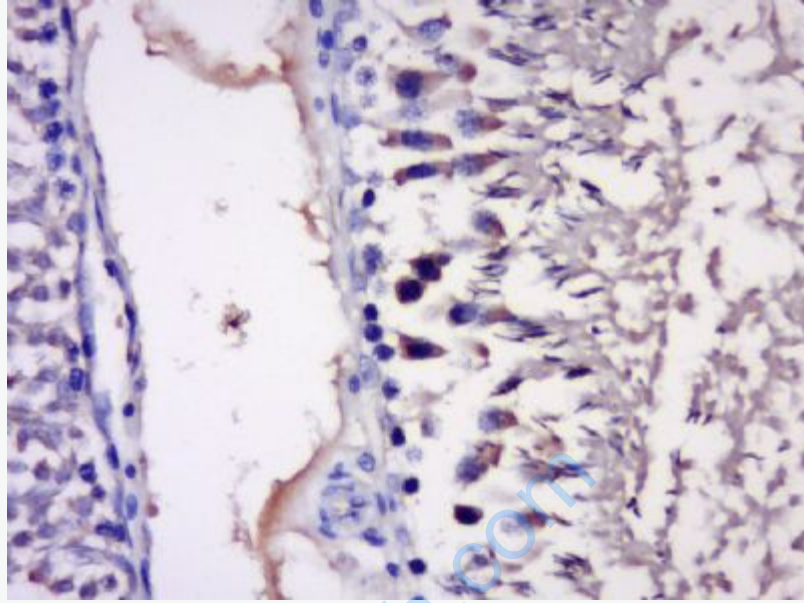
[Unigene: 515317](#) Human

Important Note:

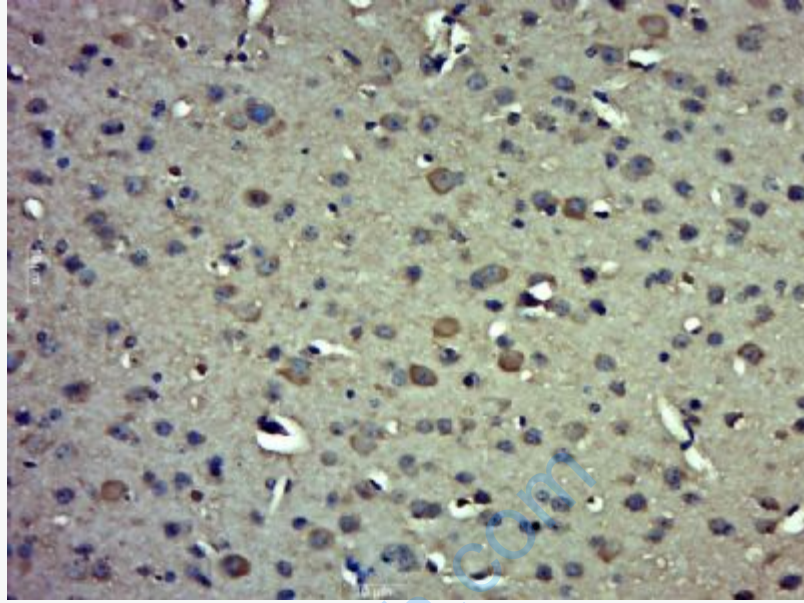
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Picture:

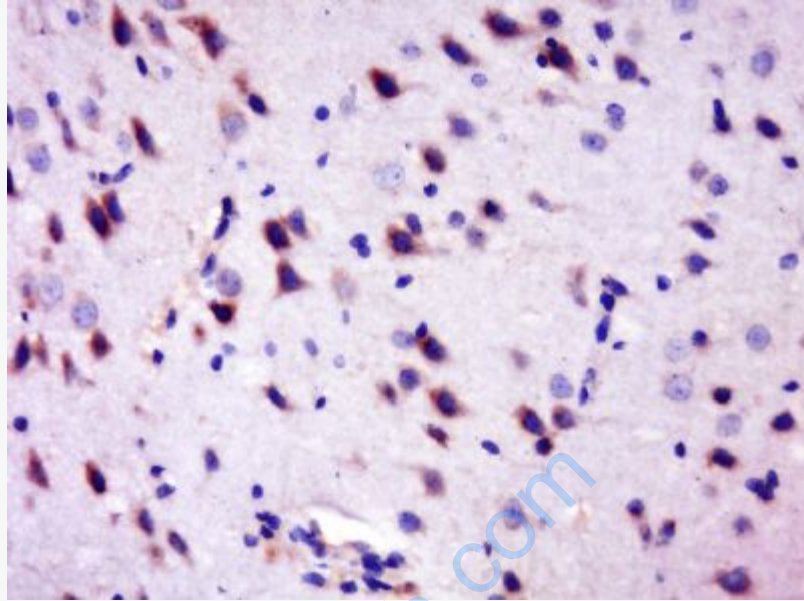




Paraformaldehyde-fixed, paraffin embedded (Rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (IMPACT) Polyclonal Antibody, Unconjugated (SL16625R) 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 (Mouse brain); 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 (IMPACT) Polyclonal Antibody, Unconjugated (SL16625R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); 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 (IMPACT) Polyclonal Antibody, Unconjugated (SL16625R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.