

# AB-PN842

## NRF2-pS40 Antibody

Phosphosite-specific rabbit polyclonal antibody for NRF2 (NFE2L2)



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### Target Protein

<b>Protein Name Long:</b>	Nuclear factor erythroid 2-related factor 2
<b>Protein Alias:</b>	NFE2L2; HEBP1; NRF2
<b>UniProt ID:</b>	Q16236
<b>Protein Molecular Mass:</b>	67,827 Da (605 AA; Q16236-1); 66,076 Da (589 AA; Q16236-2); 65,356 Da (582 AA; Q16236-3)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human NRF2
<b>Antibody Immunogen Sequence:</b>	FDF(pS)QRR( $\beta$ A)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues F37 to R43. S40 phosphorylation induces activity and transcription. <i>In vivo</i> phosphorylation of NRF2 by high throughput mass spectrometry has not been recorded in PhosphoSitePlus. NRF2 is known to be phosphorylated at this site <i>in vitro</i> by PKCa (PRKCA).
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	The immunizing peptide was produced by solid phase synthesis on a multipеп peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
<b>Amount:</b>	25 $\mu$ g
<b>Antibody Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</b>	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
<b>Storage Stability:</b>	>2 years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Rhesus macaque   Dog   Rat   Mouse   Chicken   Zebra fish

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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