

# AB-PN760

## MPL-pY591 Antibody

Phosphosite-specific rabbit polyclonal antibody for MPL



**KINEXUS**

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### Target Protein

<b>Protein Name Long:</b>	Thrombopoietin receptor
<b>Protein Alias:</b>	CD110; CD110 antigen; C-mpl; MPL; Myeloproliferative leukemia protein; Myeloproliferative leukemia virus oncogene; Myeloproliferative leukemia virus oncogene, thrombopoietin receptor; TPOR; TPO-R
<b>UniProt ID:</b>	P40238
<b>Protein Molecular Mass:</b>	71,245 Da (635 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human MPL
<b>Antibody Immunogen Sequence:</b>	CAQMD(pY)RRL
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues A587 to L594. The effect of Y591 phosphorylation is unclear. This is the major <i>in vivo</i> phosphorylation site in MPL ( $\geq 17$ reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is conserved in mammals, and found in the mouse.
<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 multipep 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>	0.2 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 $-40^{\circ}\text{C}$ or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ 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   Rat   Mouse

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

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987