




## Product datasheet

# Anti-GAB2 (phospho Y643) antibody ab78262

[1 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-GAB2 (phospho Y643) antibody
<b>Description</b>	Rabbit polyclonal to GAB2 (phospho Y643)
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide corresponding to Human GAB2 (phospho Y643). <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> 
<b>Positive control</b>	Extracts from Jurkat cells. Human brain tissue.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 0.87% Sodium chloride, 50% Glycerol (glycerin, glycerine), PBS
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab78262 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 74 kDa (predicted molecular weight: 74 kDa).
IHC-P		1/50 - 1/100.

## Target

### Function

Adapter protein which acts downstream of several membrane receptors including cytokine, antigen, hormone, cell matrix and growth factor receptors to regulate multiple signaling pathways. Regulates osteoclast differentiation mediating the TNFRSF11A/RANK signaling. In allergic response, it plays a role in mast cells activation and degranulation through PI-3-kinase regulation. Also involved in the regulation of cell proliferation and hematopoiesis.

### Sequence similarities

Belongs to the GAB family.  
Contains 1 PH domain.

### Domain

The SH3-binding motifs mediate interaction with SHC1 and GRB2.  
The PH domain mediates phosphatidylinositol 3,4,5-trisphosphate and phosphatidylinositol 3,4-bisphosphate binding.

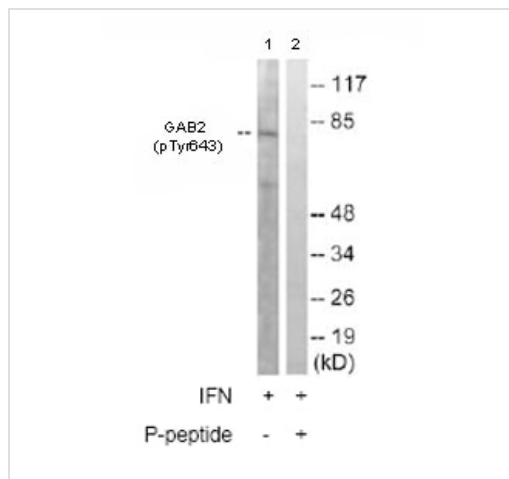
### Post-translational modifications

Phosphorylated on tyrosine residue(s) by the thrombopoietin receptor (TPOR), stem cell factor receptor (SCFR), and T-cell and B-cell antigen receptors, gp130, IL-2R and IL-3R (By similarity).  
Phosphorylated upon stimulation of TNFRSF11A/RANK by TNFSF11/RANKL (By similarity).  
Phosphorylated upon EGF stimulation. Phosphorylated on tyrosine residues by HCK upon IL6 signaling.  
Dephosphorylated by PTPN11.

### Cellular localization

Cytoplasm. Cell membrane.

## Images



Western blot - Anti-GAB2 (phospho Y643) antibody (ab78262)

**All lanes :** Anti-GAB2 (phospho Y643) antibody (ab78262) at 1/500 dilution

**Lane 1 :** Extracts from Jurkat cells, treated with IFN (2500U/ML, 30mins)

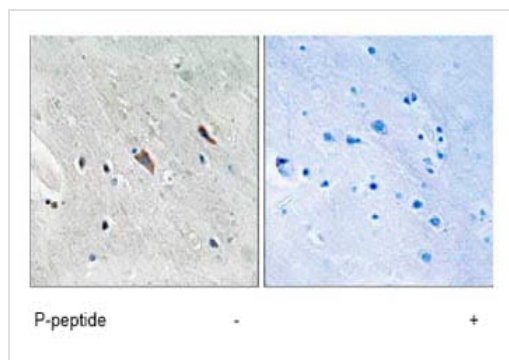
**Lane 2 :** Extracts from Jurkat cells, treated with IFN (2500U/ML, 30mins) plus 5µg immunizing peptide

Lysates/proteins at 5 µg per lane.

**Predicted band size:** 74 kDa

**Observed band size:** 74 kDa

**Additional bands at:** 65 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GAB2 (phospho Y643) antibody (ab78262)

Immunohistochemistry analysis of paraffin-embedded human brain tissue using ab78262 at a 1/50 dilution.

Left image un-treated.

Right image treated with immunizing peptide.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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