

## DESCRIPTION

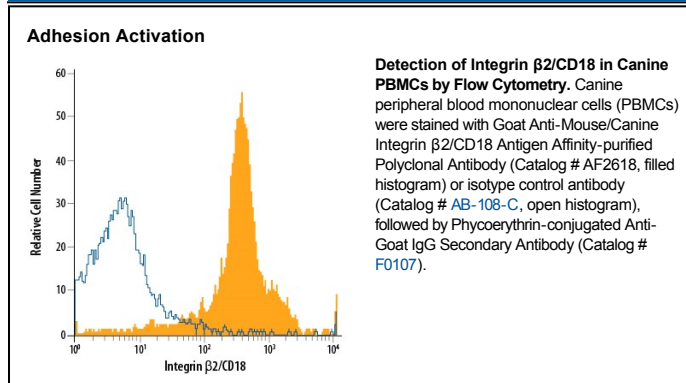
<b>Species Reactivity</b>	Mouse/Canine
<b>Specificity</b>	Detects mouse Integrin $\beta$ 2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 30% cross-reactivity with recombinant human Integrin $\beta$ 2 and recombinant mouse (rm) Integrin $\beta$ 6 is observed and less than 5% cross-reactivity with rmIntegrin $\beta$ 1, rmIntegrin $\beta$ 4, and rmIntegrin $\beta$ 7 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant mouse Integrin $\beta$ 2 Gln24-Asn702 Accession # P11835
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 $\mu$ m filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.1 $\mu$ g/mL	Recombinant Mouse Integrin $\beta$ 2/CD18
<b>Flow Cytometry</b>	2.5 $\mu$ g/10 <sup>6</sup> cells	Mouse lymph node cells and canine peripheral blood mononuclear cells (PBMCs)
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
<b>Adhesion Activation</b>	The adhesion of CD3 <sup>+</sup> purified mouse T cells to immobilized Recombinant Mouse ICAM-1 Fc Chimera (Catalog # 796-1C, 10 $\mu$ g/mL, 100 $\mu$ L/well) was maximally enhanced (2-2.5 fold) by 1 $\mu$ g/mL of the antibody.	

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Mouse Integrin  $\beta$ 2 is a transmembrane glycoprotein with an 85 kDa molecular weight (predicted) and is expressed by all leukocytes. The Integrin beta chain can be found in heterodimeric complexes with Integrin subunits  $\alpha$ D,  $\alpha$ L (complex also known as LFA-1),  $\alpha$ M (Mac-1), or  $\alpha$ X (CR-4) leading to different Integrin proteins. The extra cellular domains of mouse and canine Integrin  $\beta$ 2 share an 80.3% aa sequence identity. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling and leukocyte trafficking.