

Product Datasheet

Goat anti-Bat IgG (H+L) Secondary Antibody NB7237

Unit Size: 1 ml

Store at 4C. Do not freeze.

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NB7237**Goat anti-Bat IgG (H+L) Secondary Antibody**

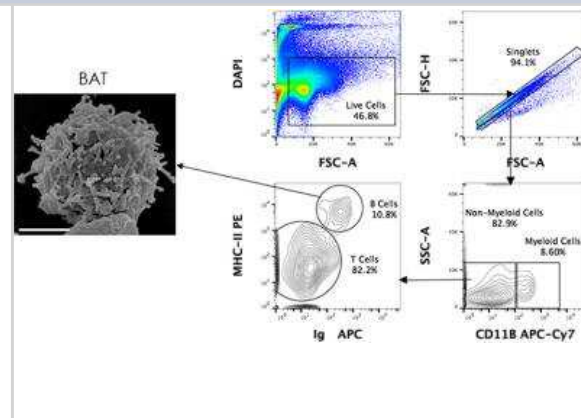
Product Information	
Unit Size	1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Phosphate Buffered Saline (PBS)

Product Description	
Host	Goat
Species	Bat
Specificity/Sensitivity	By immunoelectrophoresis and ELISA this Goat anti-Bat IgG (H+L) Secondary Antibody reacts specifically with Bat IgG and with light chains common to other Bat immunoglobulins. Antibody has been shown to react with bat genus species <i>Pteropus vampirus</i> , <i>Desmodus rotundus</i> , <i>Eptesicus fuscus</i> , <i>Tadrida pumila</i> , <i>T. condylura</i> , <i>Hypsignathus monstrosus</i> , <i>Rosettus aegyptiacus</i> , <i>Epomorphus crypturus</i> , <i>Molossus</i> species. And <i>Phyllostomus</i> species. No antibody was detected against non-immunoglobulin serum proteins. This may cross react with IgG from other species.
Immunogen	This Goat anti-Bat IgG (H+L) Secondary Antibody was developed against bat IgG-heavy and light chain.

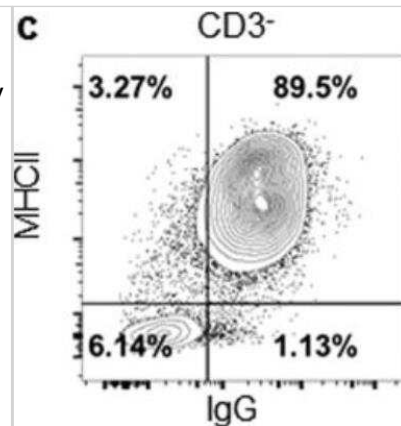
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000 - 1:30000, Flow Cytometry, ELISA 1:1000 - 1:30000, Immunohistochemistry 1:200- 1:2000, Immunocytochemistry/ Immunofluorescence 1:200- 1:2000, Immunohistochemistry-Paraffin 1:200- 1:2000

Images

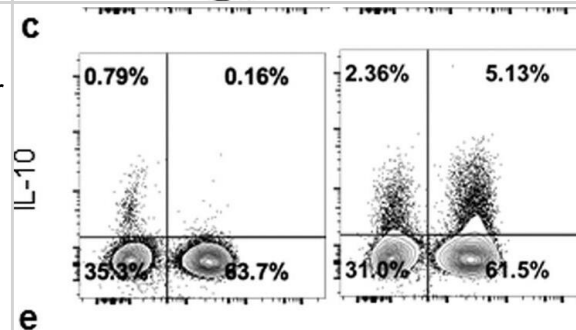
Flow Cytometry: Goat anti-Bat IgG (H+L) Secondary Antibody [NB7237] - Scanning electron microscopy (SEM) of FACS sorted B cells. *P. alecto* splenocytes were surface-stained for CD11b, MHC-II and Ig antibodies and sorted as CD11b- MHC-II+ slg+ (B cells), CD11b+ (myeloid cells) and CD11b- MHC-II- slg- cells (T cells). Sorted B cells were processed for viewing under a scanning electron microscope. Scanned electron micrograph of sorted *Pteropus alecto* MHC-II+slg+ B cells. Bar represents 2 μ m. Image collected and cropped by CiteAb from the following publication (<https://www.frontiersin.org/article/10.3389/fimmu.2019.00489/full>), licensed under a CC-BY license.



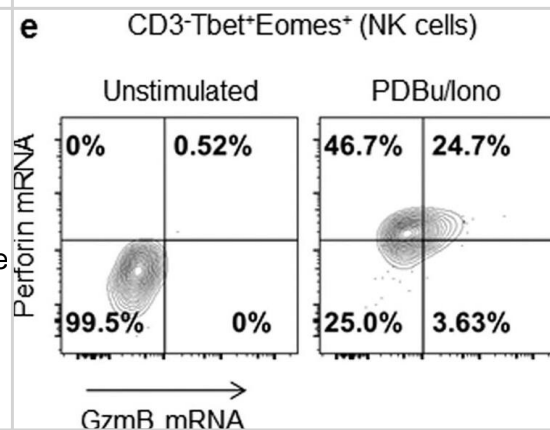
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- Strategy for immunophenotyping of lymphocytes in *P. alecto*. Bat splenocytes were stained with cross-reactive antibodies and analysed by FACS. Strategy to identify B cells based on CD3- MHCII+ and IgG+ staining. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/srep37796>), licensed under a CC-BY license.



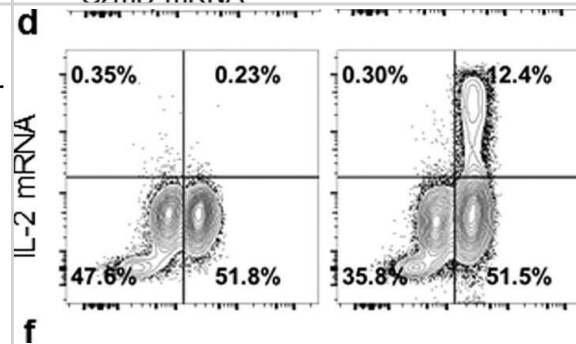
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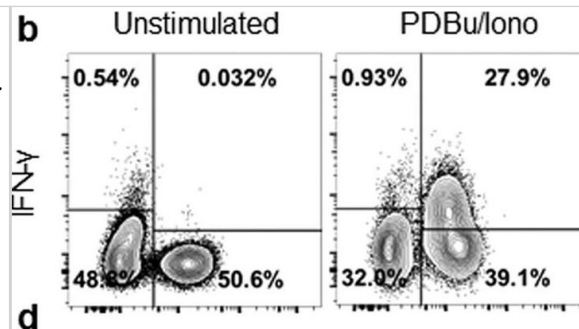
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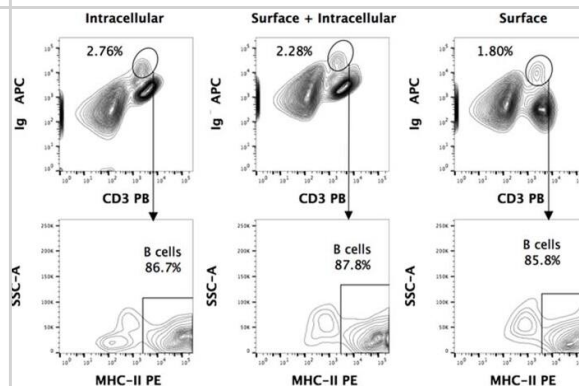
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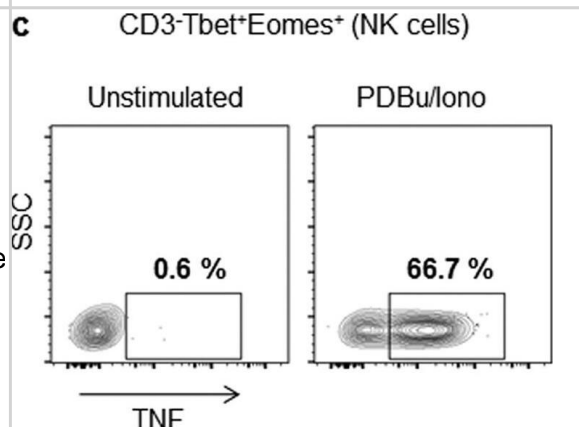
Flow Cytometry: Goat anti-Bat IgG (H+L) Secondary Antibody [NB7237] - Bat T cell production of cytokines & cytolytic factors upon mitogenic stimulation. Bat splenocytes (a–c,g–i) or PBMCs (d–f) were stimulated for 4 h with PDBu/ionomycin or media in the presence of brefeldin A & monensin. Detection of intracellular TNF (a), IFN- γ (b), IL-10 (c) was performed at the protein level, & production of IL-2 (d), granzyme B (e), perforin (f), IL-17a (g), IL-22 (h) & TGF- β 1 (i) was detected at the mRNA level by Flow-FISH. Dot plots obtained with one bat are shown & are representative of the results obtained with 2–3 different bats. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27883085>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



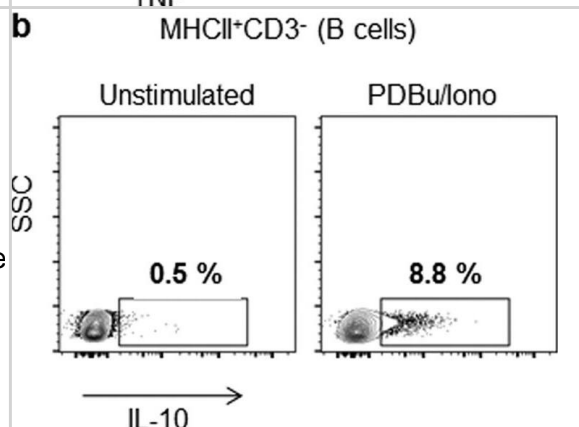
Flow Cytometry: Goat anti-Bat IgG (H+L) Secondary Antibody [NB7237] - Intracellular & surface Ig staining of *P. alecto* splenocytes. Dead cells were excluded using Live/Dead eFluor 506 dye & live cells were gated for singlets using forward scatter height (FSC-H) & area (FSC-A). For all the staining approaches (surface only, intracellular only, or surface + intracellular), a distinct slg+ CD3+/- population is observed. Greater than 85% of this population is MHCII+. Comparable percentages of these cells were obtained with surface staining only vs. intracellular staining only, thus strongly suggesting that this population is truly a slg+ B cell population. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30930908>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



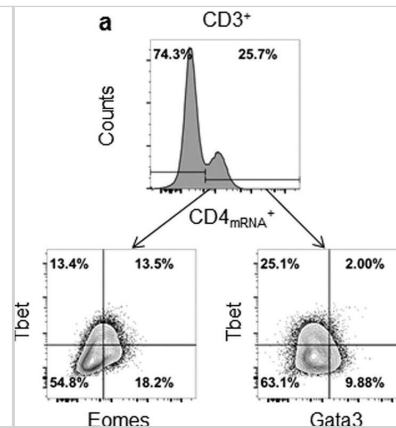
Flow Cytometry: Goat anti-Bat IgG (H+L) Secondary Antibody [NB7237] - Production of cytokines by B & NK cells upon mitogenic stimulation. Bat splenocytes or PBMCs were stimulated for 4 h with PDBu/ionomycin or media in the presence of brefeldin A & monensin. Cells were gated on CD3- MHCII+ (B cells) (a,b) or CD3- Tbet+ Eomes+ (NK cells). Production of intracellular TNF (a,c), IL-10 (b), IFN- γ (d) was done at the protein level, & production of granzyme B & perforin (e) was performed at the mRNA level by Flow-FISH. Dot plots from one bat are shown & are representative of the results obtained with 2–3 different bats. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27883085>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



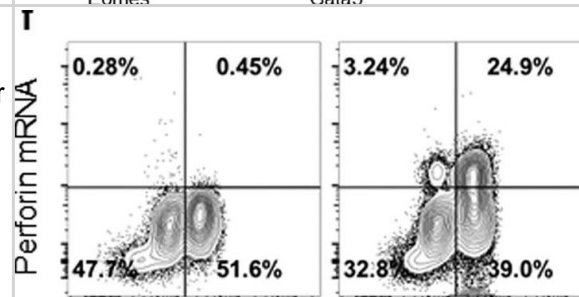
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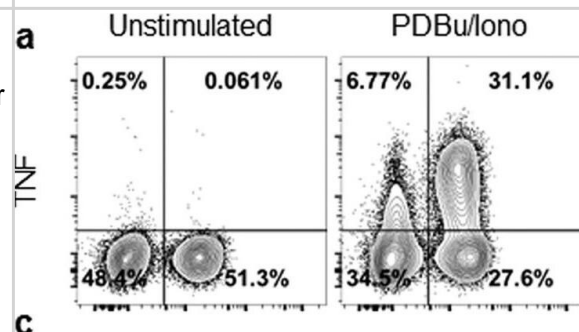
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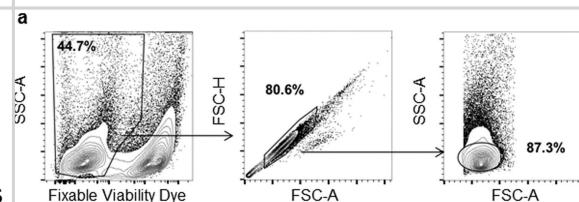
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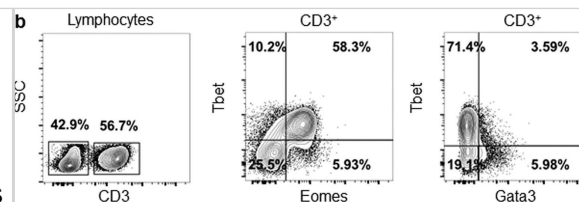
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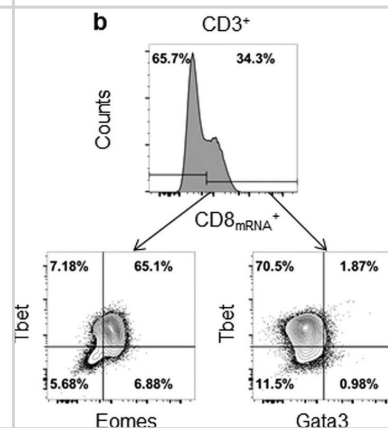
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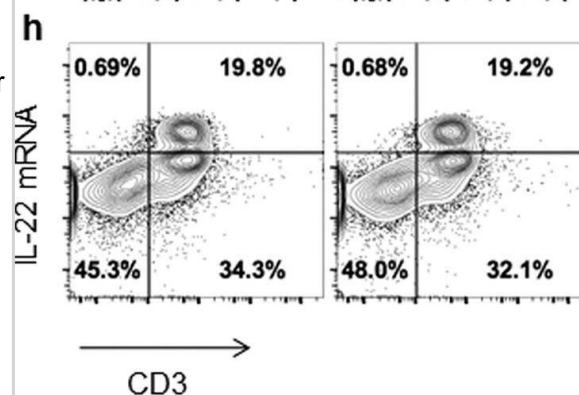
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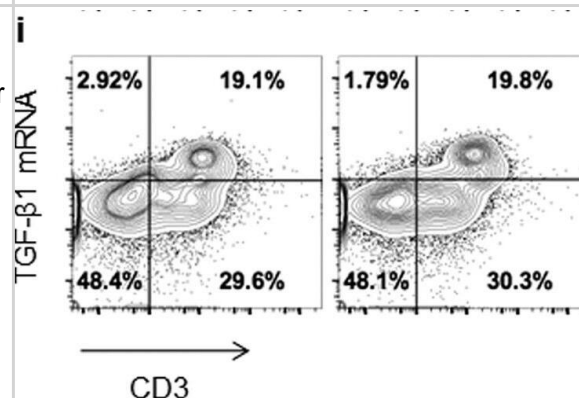
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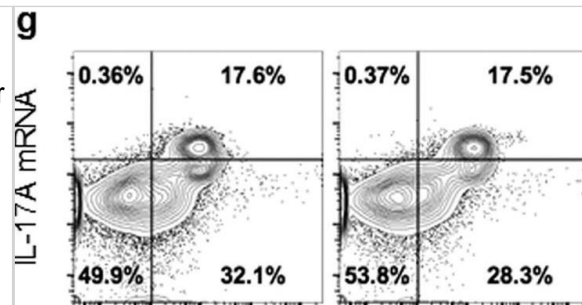
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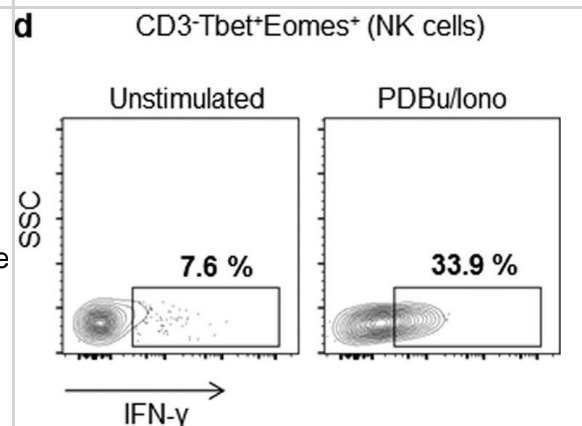
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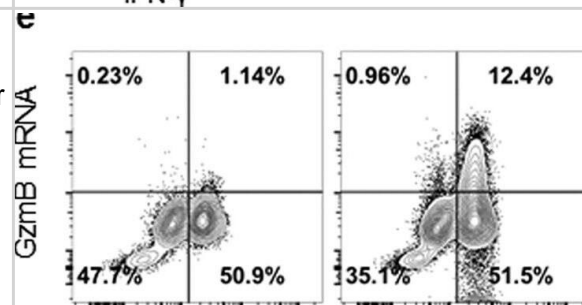
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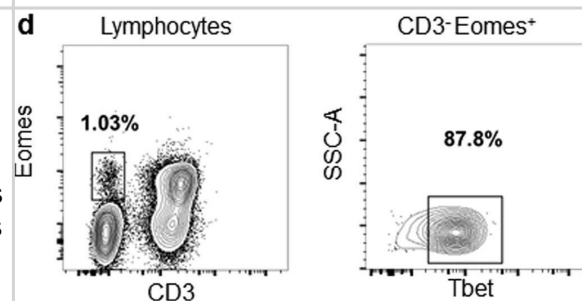
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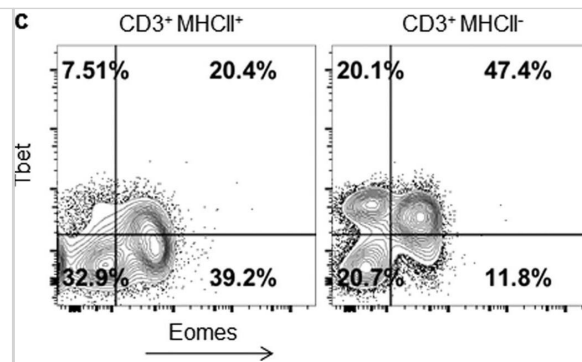
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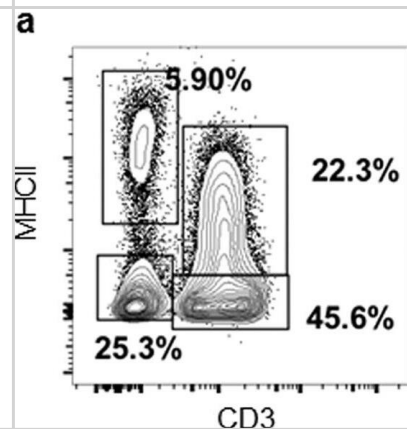
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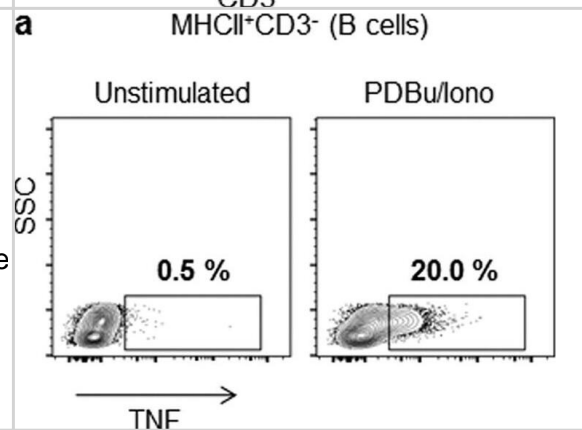
Flow Cytometry: Goat anti-Bat IgG (H+L) Secondary Antibody [NB7237] - Expression of MHCII molecules by CD3+ T cells. (a) FACS analysis of splenocytes from one bat based on detection of MHCII & CD3 molecules. (b) Individual percentages of MHCII+ T cells in spleen, MLN, PBMCs & BM from 3–4 bats. The mean (horizontal bar) & SEM are shown. (c) Dot plot featuring Tbet & Eomes expression in MHCII+ & MHCII- CD3+ splenocytes from one bat. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27883085>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Flow Cytometry: Goat anti-Bat IgG (H+L) Secondary Antibody [NB7237] - Expression of MHCII molecules by CD3+ T cells. (a) FACS analysis of splenocytes from one bat based on detection of MHCII & CD3 molecules. (b) Individual percentages of MHCII+ T cells in spleen, MLN, PBMCs & BM from 3–4 bats. The mean (horizontal bar) & SEM are shown. (c) Dot plot featuring Tbet & Eomes expression in MHCII+ & MHCII- CD3+ splenocytes from one bat. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27883085>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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Publications

Periasamy P, Hutchinson PE, Chen J et al. Studies on B Cells in the Fruit-Eating Black Flying Fox (*Pteropus alecto*) Front Immunol 2019-04-02 [PMID: 30930908] (FLOW)

Ramirez de Arellano E, Sanchez-Lockhart M, Perteguer MJ et al. First Evidence of Antibodies Against Lloviu Virus in Schreiber's Bent-Winged Insectivorous Bats Demonstrate a Wide Circulation of the Virus in Spain Viruses 2019-04-24 [PMID: 31010201]

Zhou P, Chionh YT, Irac SE et al. Unlocking bat immunology: establishment of *Pteropus alecto* bone marrow-derived dendritic cells and macrophages Sci Rep 2016-12-10 [PMID: 27934903] (FLOW)

Martinez Gomez JM, Periasamy P, Dutertre CA et al. Phenotypic and functional characterization of the major lymphocyte populations in the fruit-eating bat *Pteropus alecto* Sci Rep 2016-11-25 [PMID: 27883085] (FLOW)

Gorka M, Schinkothe J, Ulrich R et al. Characterization of Experimental Oro-Nasal Inoculation of Seba's Short-Tailed Bats (*Carollia perspicillata*) with Bat Influenza A Virus H18N11 Viruses 2020-02-26 [PMID: 32093076]

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