

ATP2A3 / SERCA3 Antibody (clone 2H3)
Mouse Monoclonal Antibody
Catalog # ALS14313**Specification**

ATP2A3 / SERCA3 Antibody (clone 2H3) - Product Information

Application	WB, IHC
Primary Accession	O93084
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	114kDa KDa

ATP2A3 / SERCA3 Antibody (clone 2H3) - Additional Information**Gene ID** 489**Other Names**

Sarcoplasmic/endoplasmic reticulum calcium ATPase 3, SERCA3, SR Ca(2+)-ATPase 3, 3.6.3.8, Calcium pump 3, ATP2A3

Target/Specificity

Human ATP2A3

Reconstitution & Storage

Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.

Precautions

ATP2A3 / SERCA3 Antibody (clone 2H3) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP2A3 / SERCA3 Antibody (clone 2H3) - Protein Information**Name** ATP2A3 ([HGNC:813](#))**Function**

This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium. Transports calcium ions from the cytosol into the sarcoplasmic/endoplasmic reticulum lumen. Contributes to calcium sequestration involved in muscular excitation/contraction.

Cellular Location

Nucleus membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Sarcoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

Found in most tissues. Most abundant in thymus, trachea, salivary gland, spleen, bone marrow, lymph node, peripheral leukocytes, pancreas and colon. Also detected in fetal tissues Expressed in cell lineages of hematopoietic, epithelial, or embryonic origin and also expressed in several cancer

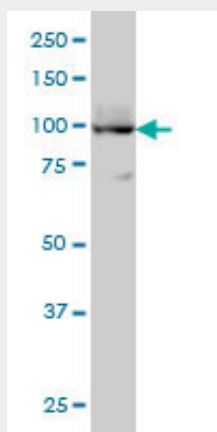
cell lines

ATP2A3 / SERCA3 Antibody (clone 2H3) - Protocols

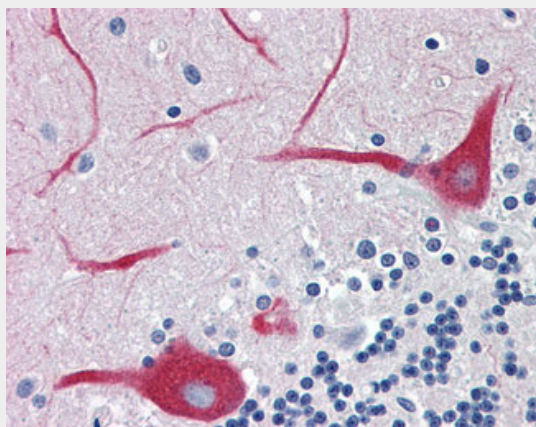
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

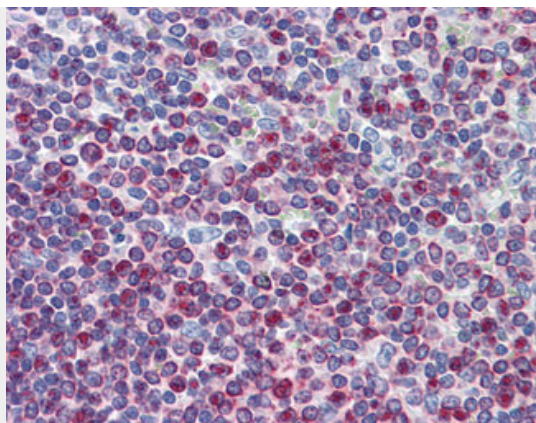
ATP2A3 / SERCA3 Antibody (clone 2H3) - Images



Western blot of ATP2A3 expression in HL-60 cell lysate.



Anti-ATP2A3 / SERCA3 antibody IHC of human brain, cerebellum.



Anti-ATP2A3 / SERCA3 antibody IHC of human spleen.

ATP2A3 / SERCA3 Antibody (clone 2H3) - Background

This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium. Transports calcium ions from the cytosol into the sarcoplasmic/endoplasmic reticulum lumen. Contributes to calcium sequestration involved in muscular excitation/contraction.

ATP2A3 / SERCA3 Antibody (clone 2H3) - References

- Dode L.,et al.Biochem. J. 318:689-699(1996).
- Dode L.,et al.Biochem. J. 319:1008-1008(1996).
- Dode L.,et al.J. Biol. Chem. 273:13982-13994(1998).
- Poch E.,et al.Am. J. Physiol. 275:C1449-C1458(1998).
- Zody M.C.,et al.Nature 440:1045-1049(2006).