Store at -20C

IL-1RA (20D8) Mouse mAb



Orders:

877-616-CELL (2355) orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

or Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Mouse IgG1	UniProt ID: #P18510	Entrez-Gene Id: 3557	
Product Usage	Application			Dilution			
Information	We	Western Blotting			1:1000		
Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						erol and less than	
Specificity / Sens		IL-1RA (20D8) Mouse mAb detects endogenous IL-1RA protein. It does not cross-react with other related proteins.					
Source / Purificat	ion Mon	Monoclonal antibody is produced by immunizing animals with recombinant human IL-1RA protein.					
Background	IL-1 have prot IL-1 resp (suc case asso	The founding members of the interleukin-1 (IL-1) superfamily include pro-inflammatory cytokines IL-1 α and IL-1 β , and a third protein that acts as an IL-1 receptor antagonist (IL-1RA). At least six similar proteins have been recently identified, including a homolog of IL-1RA (IL1F5). The three better-characterized proteins (IL-1a, IL-1b, and IL-1RA) are mainly expressed in macrophages, monocytes, and dendritic cells. IL-1a and IL-1b act as potent inflammatory cytokines that help regulate host defense and immune responses (1). Binding of these pro-inflammatory cytokines to an IL-1 receptor recruits adaptor proteins (such as IRAK) to the receptor. Phosphorylation of these adaptor proteins promotes downstream signaling cascades associated with the immune response (2). Altered expression of both IL-1a and IL-1b is associated with an extensive list of human disorders, including Alzheimer's disease, rheumatoid arthritis, psoriasis, and various forms of cancer (3,4). IL-1RA acts as an anti-inflammatory cytokine, binding the IL-1 receptor to limit the response to inflammation (5). Because it plays a key role in regulating the inflammatory					

Background References

- susceptibility to the development of specific cancers (6). 1. Pelegrin, P. (2008) Drug News Perspect 21, 424-33.
- 2. Ringwood, L. and Li, L. (2008) Cytokine 42, 1-7.
- 3. Griffin, W.S. and Mrak, R.E. (2002) J Leukoc Biol 72, 233-8.
- 4. Kamangar, F. et al. (2006) Cancer Epidemiol Biomarkers Prev 15, 1920-8.
- 5. Arend, W.P. (2002) Cytokine Growth Factor Rev 13, 323-40.
- 6. Sehouli, J. et al. (2002) Anticancer Res 22, 3421-4.

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry **Western Blot Buffer**

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

response, recombinant IL-1RA is a therapeutic agent used in the treatment of diseases, such as rheumatoid arthritis. Alternatively, mutation of the corresponding IL-1RA gene may be associated with

GP: Guinea Pig Rab: rabbit All: all species expected

Trademarks and **Patents**

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more

information.

Limited Uses Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and

conditions that are in addition to, or different from, those contained herein, unless separately accepted in

IL-1RA (20D8) Mouse mAb (#3865) Datasheet Without Images Cell Signaling Technology writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.