

氧化应激研究

氧化应激涉及复杂的细胞信号网络，与衰老、神经退行性疾病、癌症、代谢性疾病等多种病理过程密切相关。精准解析氧化应激机制，依赖于对关键靶点的高特异性检测。华安生物 (HUABIO) 提供经过全面验证的高品质抗体，覆盖氧化应激研究全路径，助您获得可靠数据，深化机制见解。

ROS-induced Signaling Pathways				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
Phospho-p53 (S33)	HA722703	H,Ms,R	WB,IF-Cell,IHC-P	Rabbit mAb
PGC1 alpha+beta	ET1702-96	H,Ms,R	WB	Rabbit mAb
PPAR	HA500569	Ms,R	WB	Rabbit pAb
PUMA	ET1602-24	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC	Rabbit mAb
Rhodopsin	ET1704-12	H,R	WB,IHC-P	Rabbit mAb
Src	ET1609-65	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC	Rabbit mAb
Phospho-Src (S17)	HA723270	H,Ms,R,Mk	WB,IF-Cell,IHC-P,FC,IP	Rabbit mAb
TRAF2	ET1612-5	H,Ms,R	WB,IHC-P,IP	Rabbit mAb
TRIB3	HA721772	H	WB	Rabbit mAb
XBP1	ET1703-23	H,Ms	WB,IHC-P,IF-Cell,IF-Tissue,FC	Rabbit mAb

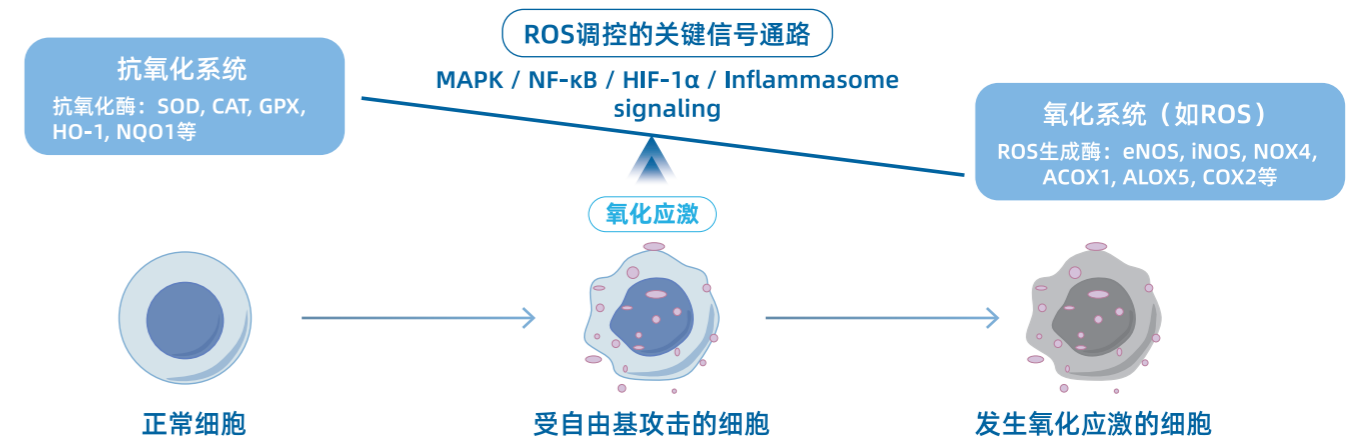
Antioxidant Enzymes				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
Catalase	ET1703-31	H,Ms,R,Z	WB,IHC-P,IF-Cell	Rabbit mAb
Glutathione peroxidase 1	EM1901-56	H,Ms	WB,IF-Cell,FC,IHC-P	Mouse mAb
GPX4	ET1706-45	H,Ms,R,Z,P,Cmk	WB,IHC-P,IF-Cell,FC	Rabbit mAb
Heme Oxygenase 1 (HO-1)	HA721854	H,Ms	WB,IF-Cell,IHC-P	Rabbit mAb
NQO1	ET1702-50	H,Ms,R	WB,IP,FC,IHC-P	Rabbit mAb
NQO2	ET1610-92	H,Ms,R	WB,IHC-P	Rabbit mAb
Peroxiredoxin 1	ET1702-08	H,Ms	WB,IF-Tissue,IHC-P	Rabbit mAb
Peroxiredoxin 3	ET1704-92	H	WB,IF-Cell,IHC-P,FC,IP	Rabbit mAb
Peroxiredoxin 4	HA721985	H	WB,IF-Cell,IHC-P	Rabbit mAb
Peroxiredoxin 5	HA722061	H,Ms,R	WB,IHC-P,IF-Cell,FC,IP	Rabbit mAb
SOD2	ET1701-54	H,Ms,R	WB,IHC-P	Rabbit mAb
SOD2 (acetyl K68)	HA722463	H,Ms,R	WB,IHC-P	Rabbit mAb
Superoxide Dismutase 1	ET1702-36	H,Ms,R,Cmk,P	WB,IF-Cell,IHC-P,FC	Rabbit mAb
Thioredoxin	ET1702-90	H,Ms,R	WB,IHC-P,FC	Rabbit mAb
TXNRD1	ET1704-81	H,Ms,R	WB,IF-Cell,IHC-P,IP,FC	Rabbit mAb
TXNRD2	HA721806	H,Ms,R	WB,IHC-P,IF-Tissue	Rabbit mAb

*H: Human; Ms: Mouse; R: Rat; Mk: Monkey; P: Pig; C: Chicken; Z: Zebrafish; Cmk: Cynomolgus monkey; Cw: Cow

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“氧化应激研究”
产品信息

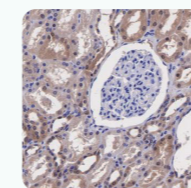


氧化应激研究概况及聚焦领域

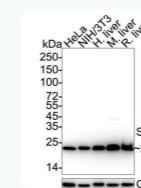


聚焦领域

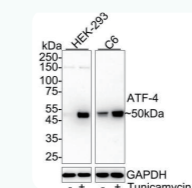
- 氧化应激相关的细胞死亡**
GPX4, SLC7A11, FSP1, ACSL4, FTH1/FTL, RIPK4, NCOA4, 4-HNE
- 线粒体应激与自噬调控**
PGC-1α, SOD2, Parkin, PINK1, NRF1, ATF4, TFAM, CHOP
- 核心防御系统**
NRF2, KEAP1, NQO1, HO-1, p62/SQSTM1, Catalase, GPX, SOD
- 表观遗传与转录调控**
HIF-1α, p53, NF-κB, P300, TET2, H3K9me3, H3K27ac
- 炎症、衰老与疾病连接**
NLRP3, γ-H2AX, p16, p21, SASP因子, NOX2/4



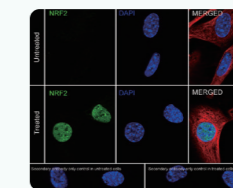
GPX4
Rabbit mAb | ET1706-45
(人肾组织)



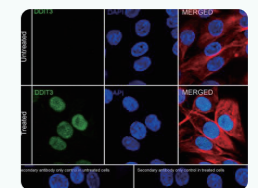
SOD2
Rabbit mAb | ET1701-54



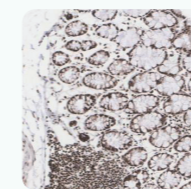
ATF-4
Rabbit mAb | HA722796



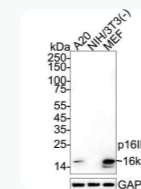
Nrf2
Rabbit mAb | HA723302



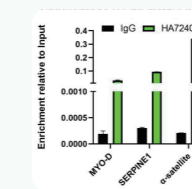
DDIT3
Rabbit mAb | HA722854



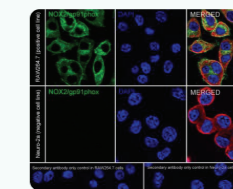
NCOA4
Rabbit mAb | HA722283
(小鼠结肠组织)



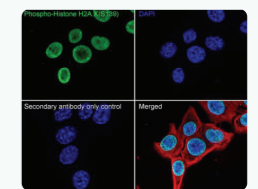
p16INK4a
Rabbit mAb | HA723746



Histone H3 (tri methyl K9)
Rabbit mAb | HA724084

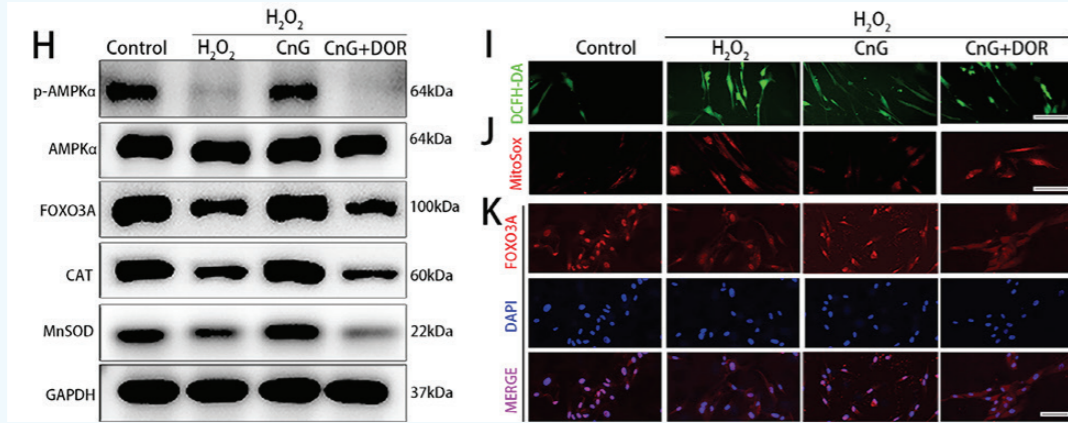


NOX2
Rabbit mAb | HA723224



γ-H2AX
Rabbit mAb | ET1602-2

客户应用案例精选



CCT/nHA@GN水凝胶治疗骨质疏松性骨缺损的机制探究 (*Adv. Funct. Mater.* 2025)

浙江大学等研究团队，使华安生物 (HUABIO) 的 **SOD2 兔单抗 (Catalog# ET1701-54)**、**Catalase 兔单抗 (Catalog# ET1703-31)**、**FOXO3A 兔单抗 (Catalog# ET1604-11)**、以及 **AMPK alpha 1/2 兔多抗 (Catalog# ER62660)** 等进行免疫印迹和免疫荧光实验，发现 CCT/nHA@GN 水凝胶通过促进 AMPKα 磷酸化激活 AMPKα-FOXO3A 信号通路，进而上调抗氧化酶 (CAT, SOD 等) 的表达，进而改善氧化应激介导的骨损伤。

数据来源: doi.org/10.1002/adfm.202424326 (浙江大学 & 浙江中医药大学)

优质产品推荐

ROS-generating Enzymes				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
5 Lipoxygenase	HA723968	H,Ms,R	WB	Rabbit mAb
COX1/Cyclooxygenase 1	ET1610-98	H,Ms,R	WB,IF-Cell,IHC-P,FC,IP	Rabbit mAb
COX2/Cyclooxygenase 2	ET1610-23	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P	Rabbit mAb
CYP17A1	ET7107-61	H,Ms,R	WB,IHC-P,IF-Tissue	Rabbit mAb
CYP4A11	HA722348	H,Ms,R	WB,IHC-P	Rabbit mAb
Cytochrome P450 Reductase	ET7107-35	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC	Rabbit mAb
eNOS	HA723892	H,Ms,R	WB,IF-Cell,IHC-P,FC,IP	Rabbit mAb
iNOS	HA722031	H,Ms	WB,IHC-P,IF-Cell	Rabbit mAb
MTCO2	ET1610-72	H	WB,IF-Cell,IF-Tissue,IHC-P	Rabbit mAb
NADPH oxidase 4/NOX4	ET1607-4	H,R,Ms	WB,IF-Cell,IHC-P,IP,FC	Rabbit mAb
nNOS	ET1609-61	H,Ms,R,Cmk,P	WB,IF-Tissue,IHC-P,IP	Rabbit mAb
NOX2 / gp91phox	HA723224	H,Ms,R	WB,IF-Cell,IHC-P,IHC-Fr,IP	Rabbit mAb
NOXA2	ET7108-72	H,Ms,R	WB,IHC-P,IP	Rabbit mAb
Total OXPHOS Antibody Cocktail	HA723756	H	WB,IHC-P	Rabbit Multi-Ab
ROS-induced Signaling Pathways				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
AKT1/2/3	HA721870	H,Ms,R,Mk	WB,IF-Cell,FC,IP	Rabbit mAb

ROS-induced Signaling Pathways				
Product name	Catalog#	Reactivity	Tested applications	Antibody type
Phospho-AKT (S473)	HA722129	H,Ms,R	WB,IHC-P,FC	Rabbit mAb
ASK1	ET1608-54	H,Ms	WB,IF-Tissue,IHC-P	Rabbit mAb
ATF-4	HA722796	H,Ms,R	WB,IP	Rabbit mAb
ATF6	HA722722	H,Ms,R	WB,IHC-P,ChIP	Rabbit mAb
c-Jun	ET1608-3	H,Ms,R	WB,IF-Cell,IHC-P,IP	Rabbit mAb
Phospho-c-Jun (S73)+JunD (S100)	HA722475	H,Ms,R	WB,IF-Cell,FC	Rabbit mAb
DDIT3	HA722854	H,Ms,R	WB,IF-Cell,FC	Rabbit mAb
Phospho-EIF2S1 (S51)	ET1603-14	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC	Rabbit mAb
EIF2S1	HA500385	H,Ms,R	WB,IHC-P,FC,IF-Cell,IP	Rabbit pAb
FOXO1A	ET1608-25	H,Ms,R,Z	WB,IF-Cell,IHC-P,FC	Rabbit mAb
Phospho-FOXO1A (T24)+ FOXO3A (T32) + FOXO4 (T28)+ FOXO6 (T26)	HA722499	H,Ms	WB,IF-Cell,FC	Rabbit mAb
Phospho-FOXO3a (S253)	ET1609-49	H,Ms,R	WB,IHC-P,IF-Cell,FC	Rabbit mAb
FOXO3A	ET1604-11	H,Ms,R	WB,IF-Cell,IF-Tissue	Rabbit mAb
GRP78 / BIP	HA722202	H,Ms,R,C	WB,IHC-P,IF-Tissue	Rabbit mAb
GSK3 beta	ET1607-71	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IHC-Fr	Rabbit mAb
Phospho-GSK3 beta (S9)	ET1607-60	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC	Rabbit mAb
HIF-1 alpha	HA721997	H,Ms,R	WB,IF-Cell	Rabbit mAb
Phospho-HSF1 (S326)	ET1608-11	H	WB,IHC-P,IP	Rabbit mAb
HSF1	HA721419	H	WB,IHC-P,IF-Cell,FC	Rabbit mAb
IKB alpha	ET1603-6	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC	Rabbit mAb
Phospho-IKB alpha (S32/S36)	HA722770	H,Ms,R	WB,IHC-P,IF-Cell	Rabbit mAb
Phospho-IRE1 (S724)	HA721980	H,Ms	WB,IF-Cell,IHC-P,FC	Rabbit mAb
IRE1	HA723225	H,Ms,R,Mk	WB	Rabbit mAb
Phospho-JNK1/2/3 (T183 + T183 + T221)	ET1609-42	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,IP,FC,IHC-Fr	Rabbit mAb
JNK1+JNK2+JNK3	ET1601-28	H,Ms,R,Cw,Mk,Z	WB,IF-Cell,IF-Tissue,IHC-P,IP	Rabbit mAb
Phospho-JunD (S255)	ET1701-35	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P	Rabbit mAb
JunD	HA722913	H,Ms,R	WB,IF-Cell,IHC-P,ChIP,IP	Rabbit mAb
Keap1	HA721525	H,Ms,R	WB,IHC-P,FC	Rabbit mAb
Phospho-NF-kB p65 (S529)	ET1604-27	H	WB,IHC-P,FC,IP	Rabbit mAb
NF-kB p65	HA721307	H,Ms,R,Mk	WB,IHC-P,IF-Cell,FC	Rabbit mAb
Phospho-NF-kB p65 (S536)	HA723223	H,Ms,R	WB,IF-Cell	Rabbit mAb
Phospho-Nrf2 (S40)	ET1608-28	H,Ms,R	WB,IF-Cell,IF-Tissue,IHC-P,FC,IP	Rabbit mAb
Nrf2	HA723302	H,Ms,R	WB,IF-Cell,ChIP	Rabbit mAb
p53	HA601315	H,Ms,Mk	WB,IF-Cell	Mouse mAb